

# Welcome to College of the Sequoias

College of the 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 9,000 students.

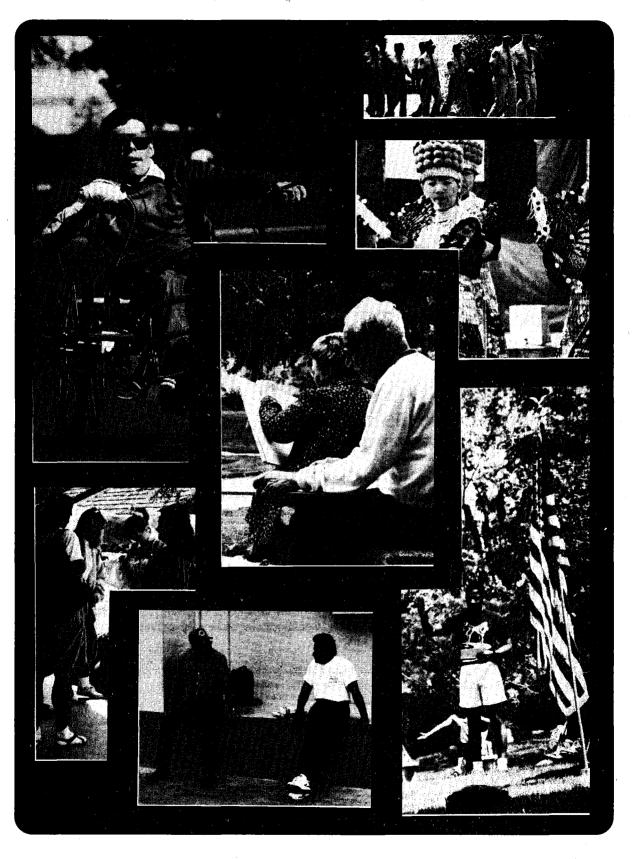
For the past four years, COS has experienced significant enrollment increases placing a greater demand on the existing facilities and equipment at the college. With the UC and CSU systems facing decreased funding and the rise in unemployment, more and more students will turn to community colleges for lower-division 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 seeking admission. Construction and planning for future construction will be a way of life at COS for the next several years.

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

# GENERAL INFORMATION -----



# Catalog and Announcement of Courses

# College of the Sequoias A Public Community College

### 1992-1993



COLLEGE OF THE SEQUOIAS COMMUNITY COLLEGE DISTRICT 915 South 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.

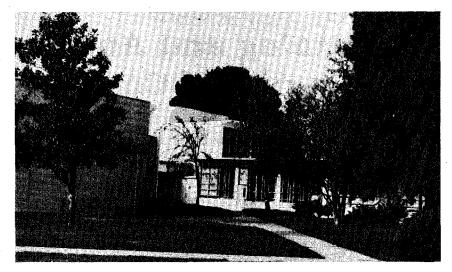
# The College

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 9,000 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 classes 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 grew 52 percent between 1980 and 1990. The population of Visalia has reached approximately 81,700 while Tulare County reflected a similar growth rate in reaching a population of approximately 319,600.

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 Sequoias. 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, and Woodlake.



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Richard Brownen, Catalog Cover Designer

Richard Brownen designed the COS catalog cover in his COS graphic design class. Photographers:

Bill Schell, Mike Anderson, Bruce Maynard, and photographers from the college newspaper, The Campus.

# Academic Calendar

# Fall Semester, 1992

# August 17, 1992-December 18, 1992

May 1 Last Day to Petition	for Fall 1992 Readmission After Scholastic Disqualification
	Registration for Continuing Students
August 12	Last day to have application on file
August 12	Last day to take COS Placement test before Fall semester
August 24	Classes Begin
August 24 - September 4	
September 4	Last Day to Drop a Class Without a "W"
	Labor Day Holiday (no classes)
	Last Day to File for Associate Degree
	Last Day to Petition for Spring 1993 Readmission
	After Scholastic Disqualification
November 11	
	Last Day to Drop Classes
	Registration-Continuing Students
	Extended Day Final Exams
	End of Semester
December 18Last Day to	Remove Incomplete "I" Grade for the Spring 1992 Semester
	and 1992 Summer School
December 21-31	
January 1-12	Recess Between Semesters
•	

#### \*Contact Registration Coordinator for specific dates at 730-3762.

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

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# Academic Calendar

# Spring Semester, 1993

January 13, 1993-May 27, 1993

November 2	ast Day to Petition for Spring 1993 Readmission After
Tomuomit	Scholastic Disqualification
January	
January 6	
January 6	
January 19	Classes Begin
January 19 - February 1	Program Changes (with instructor permission)
	Martin Luther King Jr.'s Birthday Holiday
February 1	Last Day to Drop a Class Without a "W"
February 12	Lincoln's Birthday Holiday (no classes)
February 15	Washington's Birthday Holiday (no classes)
February 19	
February 26	Last Day to File for an Associate Degree
March 2 Cal Grant Fina	ancial Aid Deadline for New and Transferring Students
March 17	
April 5-9	Easter Recess Last Day to Drop Classes
April 16	Last Day to Drop Classes
May 3Last Day to Petition for F	all 1993 Readmission After Scholastic Disqualification
May 20-26	Extended Day Final Exams
May 21-27	
May 27	Commencement/End of Semester
	Make Up Incomplete "I" Grade for Fall 1992 Semester
	Summer Session

### \*Contact Registration Coordinator for specific dates at 730-3762.

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

#### **BOARD OF TRUSTEES**

Ned F. Baker President (Ward 3)

Luther Khachigian Clerk (Ward 1)

(Ward 5)

Robert Lyman Vice-President (Ward 4)

Louis E. Sweet (Ward 2)

SUPERINTENDENT/ PRESIDENT

Dr. Robert A. Lombard

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:

> Mr. Vic Collins, 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 Sequolas 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 opportunityaffirmative action employer.

# **College Administration**

Dr. Gilbert M. Dominguez Vice President, Instruction

Dr. David C. Bockman Dean of Instruction Applied Sciences

Dr. Dianne Sharples Dean of Instruction Liberal Arts & Extended Day

**Dr. Lynn Mirviss** Associate Dean, Instruction Nursing & Summer Session

Mr. Gary Kuncl Director Police Training/Public Safety

> Ms. Ann Heater Associate Dean Library Services

Mr. Dale Norton Associate Dean, Instruction Precollegiate Studies Dr. Robert A. Lombardi Superintendent/President

Mr. David J. Erickson Vice President Administrative Services

Mr. Dave Adams Director Facilities and Operations

Mr. Victor Collins Director Personnel Services, Affirmative Action

> Mr. Joe Nemcek Director Information Services

Mr. Don Mast Associate Dean, Student Services Enabler Program, Health Services

Dr. Edmund Carlson Director COS Foundation Dr. Don Goodyear Vice President Student Services

Mr. Bill Bettencourt Dean of Students Counseling, Activities

Mr. Robert G. Heath Dean of Students Admissions and Records

Ms. Christina Knox Associate Dean, Student Services Matriculation

Mr. Richard Grajeda Associate Dean,Student Services EOP&S

Mr. Ronald Hays Dean of Students Services Special Programs

# **College of the Sequoias Foundation**

**C**ollege 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.

**G**ifts 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.

**P**ersons 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**

**T**raditional facilities at the campus include lecture classrooms; science laboratories; computer laboratories in English, Math, Business, and Nursing; a photography laboratory; a multi-purpose gymnasium; theater; an industrial and automotive technology complex; 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, racquetball 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 located at 3101 South Linwood, Visalia.

#### <u>Farm</u>

The COS Farm located at 2245 South Linwood, Visalia 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 Holstein herd which is one of the top herds in the area of milk 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.

production. A complete horticulture

#### **Hanford Center**

College of the Sequolas 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**

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 session 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-Orost 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 High School-West 1150 West Lacey Rooms: 101-758

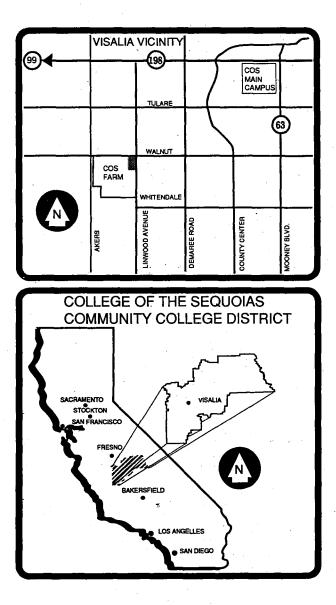
Hanford High School-East 120 East Grangeville Rooms: 21-95

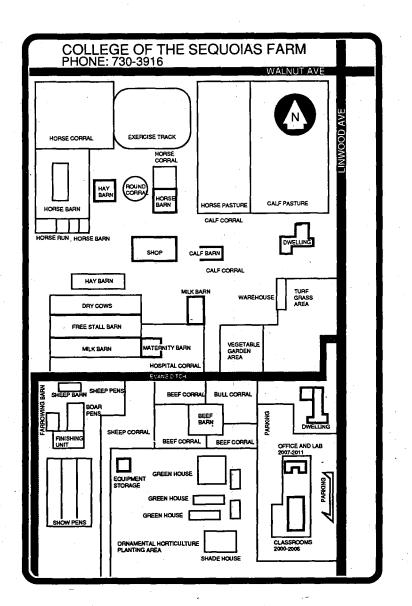
LINDSAY Lindsay High School 1701 East Tulare Road

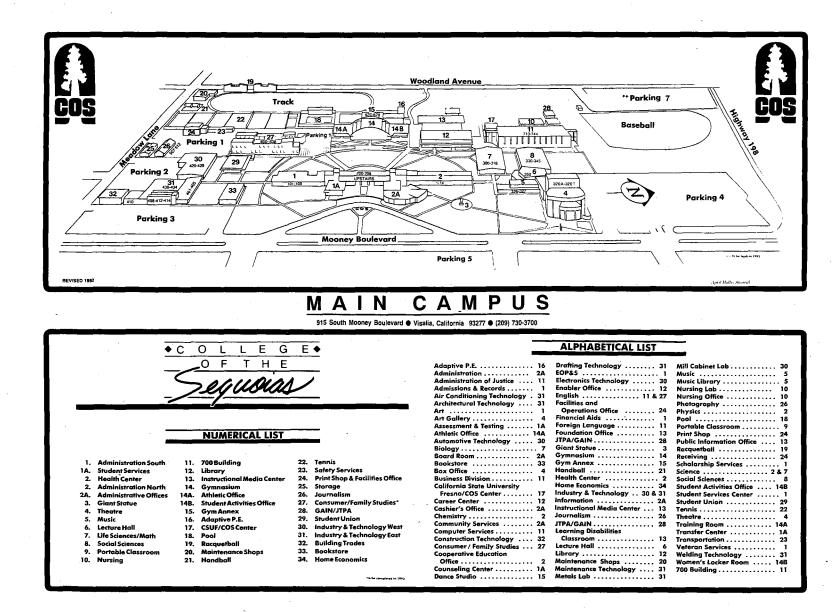
WOODLAKE Woodlake Union High 400 West Whitney

THREE RIVERS Three Rivers Elementary School 41932 Sierra Drive

TULARE Tulare Union High School 755 East Tulare







# 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 personal 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.

#### **PROGRAMS AND SERVICES**

#### **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 and vocational 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 the skills and competencies which lead 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.

#### <u>COLLEGE OBJECTIVES</u> (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 recreational opportunities.

#### Adult and Lifelong Learning Education

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

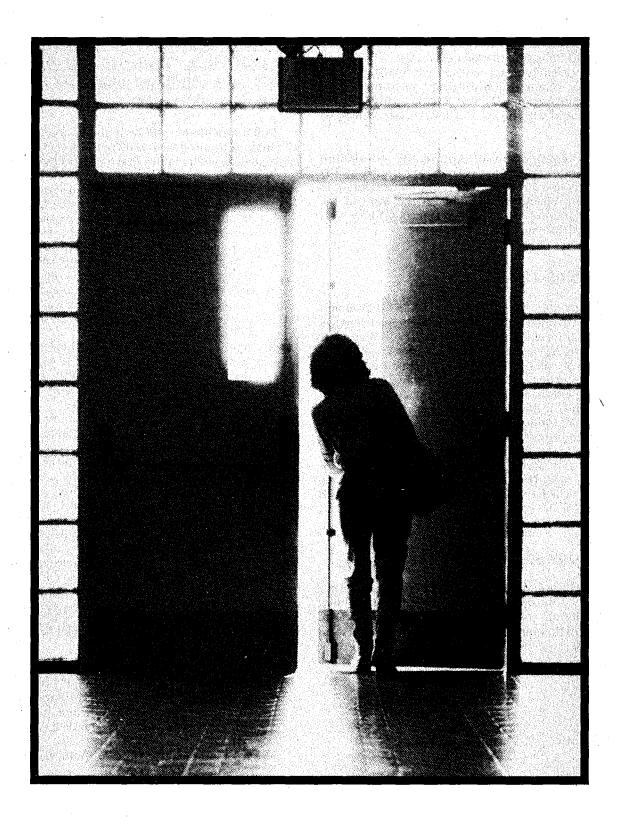


# History of the College

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.

**O**n 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.



## **Eligibility for Admission**

Any graduate of an accredited high school may be admitted to College of the Sequolas. 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**

All students are required to take the COS Placement Test for math and English if they have completed or will complete six (6) or more units AND plan to pursue either a certificate, Associate degree, or transfer program. All students who plan to enroll in Chemistry 1 must take the chemistry test. All other students who plan to enroll in an English or math course or any course with an English and/or math 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 the Assessment Center in Room 101B. 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.

#### 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.

# <u>Summary of Admission Requirements</u> for Full-Time Students (12 or more units) and students planning to take more than six units

Full matriculation will be required of any student who intends to enroll for 7 or more units of credit. 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.

### <u>Summary of Admission Requirements</u> <u>for Part-time Students, Six (6) or Fewer</u> <u>Units</u>

- 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

## <u>Summary of Admission Requirements</u> <u>for Part-time Students, Six (6) or Fewer</u> <u>Units (Continued)</u>

- 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.

## **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).

### **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 higher 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).

# College Level Examination Program (CLEP)

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 and Records, 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 \$3,360 is the same as for other non-resident students. Payment of \$1,680 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 \$350 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 and Records.

### **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.

# **Transcripts (Continued)**

#### 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. Those who are 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 State 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 \$112 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 Memberships. The ASB card entitles the student to participate in or attend all activities sponsored by the ASB.

## **Nonresident Tuition Fees**

The nonresident tuition fee for the academic year 1992-93 is \$112 per semester unit, payable each semester upon registration. The nonresident tuition fee for foreign students is \$121 per semester unit when the student is both a citizen and a resident of a foreign country. Fees are applicable whether non-residents enroll for credit or noncredit. <u>Guidelines and regula-</u> tions for fee refunds for the nonresident student are the same as for all other students.

# **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 in designated areas. 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.

# **Matriculation Policies**

Matriculation is a process that assists students in planning, choosing, and achieving educational and career goals. It begins with applying for admission and ends when the student completes the expressed goal. The purpose of matriculation is to ensure access to appropriate programs and courses offered by the college and to facilitate successful completion of student educational objectives. Through a coordinated program between instruction and support services, the college promotes and sustains efforts to help students achieve their goals.

Matriculation is a partnership between the student and the community college. It comprises mutual responsibilities and agreements for both partners. Any student who enrolls in credit classes for the purpose of realizing an educational or career goal is considered a matriculant. Matriculated students are expected to:

- 1. express a broad educational intent at the time of admissions;
- 2. declare a specific educational objective within a reasonable period of enrollment;
- 3. complete the COS Placement Test or other assessments;
- 4. attend an orientation or the STEPS to SUCCESS program;
- discuss educational/vocational choices and class selections with a counselor prior to registration;
- 6. diligently attend classes and complete assigned coursework;
- 7. seek support services as needed and complete courses to maintain progress toward an educational goal.

The community college agrees to provide:

- 1. an admission process,
- 2. a pre-enrollment assessment process,
- 3. an orientation to college programs, services, and procedures,
- 4. a pre-enrollment counseling and advising session,
- 5. an Educational Study Plan,
- 6. a suitable curriculum or program of courses,
- 7. a quality instructional experience,
- 8. a continuous follow-up on student progress with referrals to support services when needed, and
- 9. institutional research and evaluation to review the effectiveness of programs in assisting students to reach their goals.

All students who are deemed matriculants are required to participate in the Matriculation activities. Non-exempt students may request exemption status by completing a form and presenting their case to the Associate Dean of Student Services, Matriculation. Students who are exempt based upon the following criteria are welcome to request any service or activity from the respective departments.

# Exemption Criteria for Assessment

All students are required to take the COS Placement Test for math and English if they have completed or will complete six (6) or more units AND plan to pursue either a certificate, Assoicate degree, or transfer program. All students who plan to enroll in Chemistry 1 must take the chemistry test.

All students are exempt from the math and/or English test if they satisfy one of the criteria listed below:

#### MATH TEST:

- enrolling in courses other than a math class or a class that lists a math recommendation/ prerequisite; or
- 2. presenting a valid college transcript that demonstrates successful completion of math courses that are equivalent to courses offered at COS.

#### ENGLISH TEST:

- 1. enrolling in courses other than an English class or a class that lists an English recommendation/prerequisite; or
- 2. presenting a valid college transcript that demonstrates successful completion of English courses that are equivalent to courses offered at COS; or
- providing scores for the ACT or SAT (ACT English Usage = 23, or SAT Verbal = 510).

# Exemption Criteria for Orientation and Steps to Success Program

All students are required to participate in the STEPS to SUCCESS Program or the alternative onehour orientation session unless they meet one of the criteria listed below:

- 1. enrolling in six or less units without the desire to obtain a certificate, AA/AS degree, or transfer requirements for a four-year institution; or
- 2. verifying previous participation in an Orientation at College of the Sequoias (orientations at other colleges do not apply); or
- 3. having accrued more than 30 units at College of the Sequoias (units accrued at other colleges do not apply).

# Exemption Criteria for Counseling

All students are required to consult a counselor unless they meet one of the criteria listed below:

- enrolling in six or less units without the desire to obtain a certificate, an AA/AS degree, or transfer requirements for a four-year institution; or
- 2. enrolling in six or less units of classes that do not require reading, writing or computational skills; or
- 3. verifying a prior counseling session in conjunction with the development of a current COS Educational Study Plan.

## **Exemption Procedures**

Any student who is considered non-exempt from the Matriculation services by district criteria (mentioned above), yet wishes to be considered for exemption for one or more of the activities, shall be directed to the Associate Dean of Student Services, Matriculation.

#### FORMAL PROCEDURE:

- 1. The student can acquire the Matriculation Exemption Form from Admissions & Records, Counseling, or the Office of the Assoicate Dean of Student Services, Matriculation.
- 2. The student must return the form to the Assoicate Dean.
- 3. The Assoicate Dean (or a proxy in the event of absence) will review all cases on the same day as they are submitted. Exemptions that are submitted during evening registration will be reviewed the following day.
- 4. The student may file an Appeal/Grievance Form requesting a hearing from the Matriculation Appeal/Grievance Committee within 10 working days of submission if the student is dissatisfied with the exemption status.

# **Appeal/Grievance Procedures**

An appeal/grievance may be filed with the Associate Dean of Student Services, Matriculation, under the following situations:

- 1. If a student feels entitled to any service or program to which he/she has been denied access; and/or
- 2. If a student feels that any procedure is being applied in a discriminatory manner.

The Matriculation Appeal/Grievance Form is available in the Office of the Associate Dean of Student Services, Matriculation.

#### FORMAL PROCEDURE:

- 1. The student must complete the form and submit it to the Office of the Assoicate Dean of Student Services, Matriculation.
- 2. Within 10 working days, the Associate Dean will personally review the case with the student.
- 3. If the student is still dissatisfied with the resolution, the student can request a hearing from the Matriculation Appeal/Grievance Committee within 10 additional working days to review the Appeal/Grievance.

# **Refund Policy**

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

#### 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:

Subjects	Units Attempted	Units Passed	Grade	Grade Points
PE	1	1	С	2
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 2.125.

**Explanation:** Since Hygiene 1 was dropped with a "W," it does not count as units attempted. All other subjects 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.

# Fees

#### **Enrollment Fee**

Fewer than 10 units

\$6.00 per unit \$3.00 per 1/2 unit

10 units, or more \$60.00 flat fee

(Fee walvers are available for low income students) \*

**Refunds:** Enrollment refunds will be mailed to the Students from the Accounts Receivable Office within 6-8 weeks <u>after</u> instruction begins.

100% refund is given to students if they <u>completely</u> withdraw from class the last day of registration BEFORE school begins or the class is cancelled by the college. <u>NO REFUNDS</u> <u>WILL BE GIVEN AFTER THE SECOND WEEK OF</u> INSTRUCTION.

### 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 <u>completely</u> withdraw from classes <u>prior to the first</u> <u>day</u> 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 \$10.00 11 units or less \$20.00 12 units or more \$10.00 Summer Session Motorcycle and Moped parking is free in designated areas

<u>Fresno State</u> <u>Students</u> 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 <u>completely</u> withdraw from class the last day of registration BEFORE school begins or if the class is cancelled by the college.

NO REFUNDS WILL BE GIVEN FOR MATERIAL FEES AFTER THE CLASS BEGINS.

### ASB Photo ID Fee

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

Price:	\$15.00 per year
Refunds:	Through ASB Office

### **Nonresident 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.

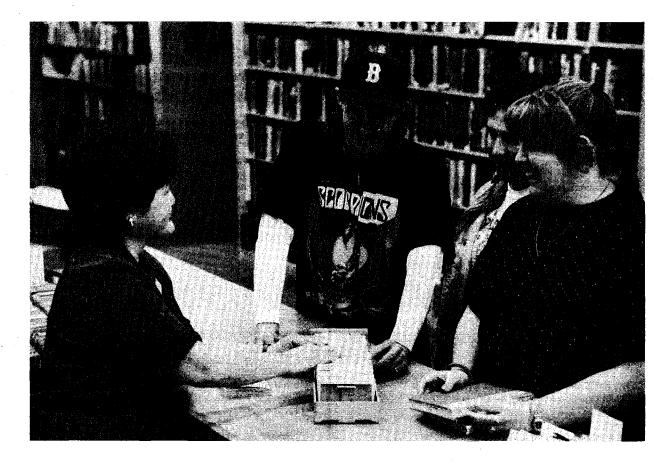
Nonresident Tuition:\*

\$112 per unit per semester

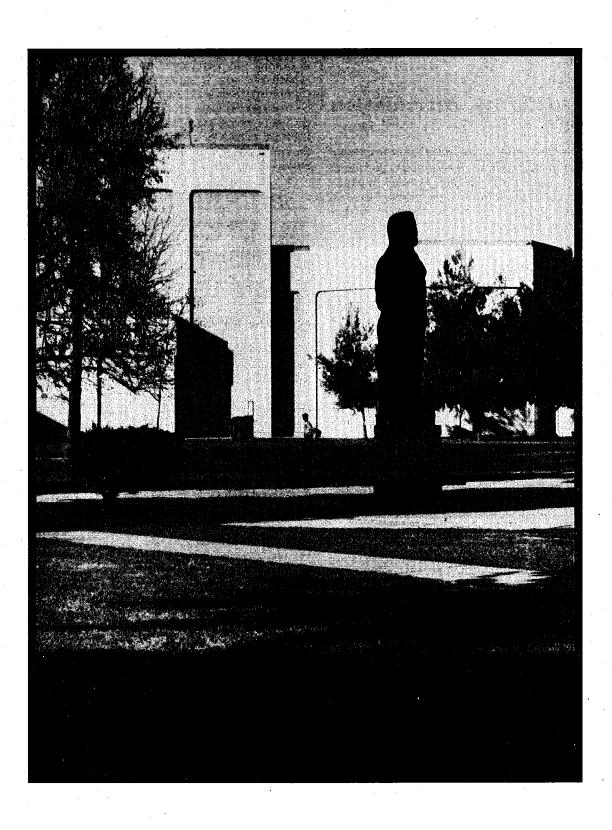
\*\$121 per unit per semester applies if student is both a citizen and a resident of a foreign country

Refunds:

Cashier 's Office







# Auditing Credit Classes

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

# 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. For further information refer to Page 67.

# **Class Cancellations**

Courses listed in the Schedule of Classes are subject to cancellation based on low enrollment. If a class is cancelled, fees will automatically be refunded and every effort will be made to reschedule students to meet their needs. Early registration and attendance of first class meetings will help ensure continuance of scheduled classes.

## **Class Waiting Lists**

Waiting lists are established for high demand classes that have filled to the maximum enrollment. Students may register on waiting lists and are encouraged to attend the first two class meetings. Waiting list students will be added to the class as other students are dropped, in the order that they registered.

Instructors teaching classes with waiting lists are required to promptly drop enrolled students who do not attend the first class meeting without notifying the instructor.

## **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, a \$7.50 Health Fee, and a materials fee if applicable. 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 20 students enrolled in a lecture credit course, and 15 students enrolled in laboratory credit course. If there are fewer students enrolled in the lecture or lab course, 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.

## **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.

# **Course Repetition Policy**

Only courses which fall into the following catagories may be repeated. Enrollment in two sections of the same course is not permitted.

1. Courses designated "a-b," "a-c," and "a-d" may be repeated for credit; however, they may not be taken concurrently. Courses may be repeated according to the following schedule.

#### "a-b" May be taken 2 times for credit "a-c" May be taken 3 times for credit "a-d" May be taken 4 times for credit

Courses that are repeatable are approved for inclusion in this category on the following basis:

- 1. Skills or proficiencies are enhanced by supervised repetition and practice or;
- 2. Active participation experience is a basic means by which learning occurs.

College of the Sequoias monitors student enrollment in repeatable courses. Students enrolled in courses the permitted number of times will receive credit. Any student enrolled for more than the maximum number of times will be dropped. Students are urged to keep track of the number of times they repeat such courses, because no prior warning can be provided by the College that the repetition limit has been reached. See "Community Service Option" regarding course attendance in repeatable courses once the repetition limit has been reached.

A student may repeat a course:

- 1. If a grade of "Credit" or "CR" was received and prior permission of the Vice President, Student Services, has been granted.
- 2. If a final course grade of "D," "F," or "NC" was received.
- 3. If the grade was affected by interruptions such as verifiable accident, illness, or other circumstances beyond the control of the student.
- 4. If a significant lapse of time has occurred since the course was taken (usually at least one calendar year).

5. When repeating a course with an initial grade of "C" or better, the student to have the most recent grade recorded, MUST obtain a petition from Student Services and have written approval from the Vice President of Student Services PRIOR to repeating a course. The second grade awarded for repeated courses in which a "C" or better was received initially, shall not be counted in calculating a student's grade point average. However, the second grade earned will appear on the official transcript.

# Credit-No Credit/Zero Unit Courses

The below listed courses are zero unit courses and do not receive a grade. Evaluation is on a "credit/no credit basis".

#### CONSUMER/FAMILY STUDIES Foster Care 400, Discipline

Foster Care 401, Working with the System

Foster Care 402, Disruptive Behavior

Foster Care 403, Child Sexual Abuse

Foster Care 404, Special Needs

Foster Care 405, Adult Independent Living

Foster Care 406, Youth Independent Living

Foster Care 407, Child Abuse

Foster Care 408, Child Health Issues

Foster Care 409, Connecting with Parent Support Services

#### LANGUAGE ARTS/COMMUNICATIONS English 401a-d, Nostalgic and Reminiscent Writing

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# Credit-No Credit/Zero Unit Courses (Continued)

#### NURSING

Nursing 401, Nursing and Other Health Careers for Ethnic Diversity

MATH/SCIENCE/ENGINEERING GEOLOGY 352, Field Geology



# **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.
- Students must furnish strong proof to the satisfaction of the instructor/department, division chair person and 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 examination. 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.

# **Dropping a Class**

It is the student's responsibility to drop a class in which he/she no longer wishes to be enrolled. <u>Nonattendance does not release the student from this</u> <u>responsibility</u>. 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.

#### **Drop Fee**

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

### **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 Dean of Admissions and Records.

## **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.

### **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.

# 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.

## **Incomplete Grades**

Incomplete grades (I) may, at the instructor's option, be given for incomplete academic work due to extenuating circumstances. The condition for removal of the (I) shall be stated by the instructor in a written record. This record shall contain the conditions for removal of the (I) and the grade assigned in lieu of its removal. This record must be given to the student with a copy on file with the Dean of Admissions and Records until the (I) is made up or the time limit has passed. A final grade shall be assigned when the work stipulated has been completed and evaluated, or when the time limit for completing the work has passed. The (I) may be made up no later than one semester following the end of the term in which it was assigned. The (I) symbol shall not be used in calculating units attempted nor for grade points.

# **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 courses are accepted for the granting of transfer credit at a UC campus contingent upon an evaluation of the course outline by a UC campus. Maximum credit allowed is 3-1/3 semester units per term, 6 units total in any or all appropriate areas combined.

### 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 currently registered at COS in one or more units before applying for independent study credit.
- 2. The student seeking independent study should outline his/her proposal and discuss it with an appropriate instructor. With the instructor's approval, the student should then complete the independent study application form. Once the form is completed, the student should return it to the supervising instructor. This approval process should be completed before the third week of the semester.
- 3. The form should then be passed from instructor to division chairperson to the Vice President, Instruction.
- 4. 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.
- 5. 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.
- 6. Roll sheets will be distributed to the appropriate instructors by the Admissions Office.
- 7. 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 scheduled classes</u>.
- 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.

### Independent Study Application Procedure (Continued)

9. 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 satisfaction of the instructor(s).

# **Maximum Unit Limit**

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.

### **Military Service Credit**

To be eligible for military service credit, a veteran must have completed basic training and must have been honorably discharged. Credit will not be applicable until at least 15 units of credit with a grade point average of 2.0 ("C") has been earned at the College of the Sequoias.

The college will grant credit on this basis only for service courses or schools as described in the "Guide of the Evaluations of Educational Experiences in the Armed Forces," by the American Council of Education.

It is strongly urged that students, if eligible, apply for their military service credit after transfer from COS, or instead, if appropriate petition for credit by examination.

A maximum of 15 units may be earned through military service credit.

### **Peace Corp Credit**

Credit will be granted for service in the Peace Corps only if the work is earned on an official college transcript. No credit can be granted for field work.

### **Prerequisites**

Under the Title 5 Matriculation Regulations, students are entitled to enroll in any course for which they can meet necessary and valid prerequisites. A prerequisite is a course that must be completed before a more difficult course is attempted. For example, a student must complete Math 230 (Intermediate Algebra) with a "C" or better prior to attempting Math 45 or 21. Course prerequisites are identified in the college catalog course sections.

Section 58106 of the Matriculation Regulations permits the establishment of prerequisites if the particular prerequisite:

- a. was established prior to July 6, 1990 and is part of a sequence of degree-applicable courses within a given discipline;
- b. is required by statute or regulation;
- c. is part of a closely related lecture-laboratory course pairing which requires concurrent enrollment; or
- d. is required by a four-year institution to ensure transferability of subsequent courses.

According to Section 55534 and 58106 of the Matriculation Regulations, any prerequisite may be challenged by a student based upon one or more of the grounds listed below. Grounds for challenge occur when:

- 1. a prerequisite, which must be validated pursuant to subdivision (c) (2) of Section 55534, has not been validated or is being applied in a discriminatory manner;
- the student has the knowledge or ability to succeed in the course despite not meeting the prerequisite;
- a prerequisite which does not need validation under subdivision (c) (2) and has not been so validated is discriminatory or is being applied in a discriminatory manner;

# **Prerequisites (Continued)**

- 4. the prerequisite for a course is not offered in a given semester; or
- 5. the necessary pre-collegiate basic skills course is not available.

Important to note is that challenges MUST BE resolved in a timely manner and the student must be permitted to enroll in the course in question if the challenge is upheld. The Appeal/Grievance form to challenge a prerequisite can be obtained from the Associate Dean of Student Services, Matriculation, in Room 101.

## **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 student readmitted after disqualification remains on probation until probation removal requirements have been fulfilled. Students dismissed for the second time are not eligible to repetition for admission until another semester of nonattendance 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" grades 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 least three consecutive semesters reaches or exceeds 50 percent.

Disqualified students will be so informed by letter and on their grade reports and notice of their status may 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 readmission is required prior to enrollment and is available from the Dean of Admissions and Records Secretary in Room 107.

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

### **Student Progress**

If satisfactory progress through College of the Sequolas' 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.

### **Report Delayed (RD)**

The "RD" symbol may be assigned by the Dean of Admissions and Records only. It is to be used when there is a delay in reporting the grade of the student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible. "RD" shall not be used in calculating grade point averages.

# **Transfer Deficiences**

In the case of an applicant not eligible for clear admission to a college or university at the time of entrance to the community college, deficiencies in both subject and grade requirements for such admission should be removed in the community college.

Repetition of a college course for the purpose of removing a grade deficiency is permissible by contacting the Admissions and Records Office for details.

# 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 Office, Room 107 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.

# Student Rights and — Responsibilities



# Students Rights and Responsibilities —

#### Student Bill of Rights Preamble: College of the Sequoias students, as members of the academic community, have the same rights and freedoms that all citizens have as students, and as students they are accountable to federal and state laws and statutes. In addition, students are also accountable to the College of the Sequolas Board policies and individual college campus rules and regulations. In the context of these concepts, students' rights consist of the following: Student's Rights: 1. In preparing student publications, the editorial staff and faculty advisors shall be free from censorship and advance copy approval. These publications shall do the following: a. Adhere to cannons of responsible journalism, such as avoidance of libel, indecency, undocumented allegations, attacks on personal integrity, and the techniques of harassment and innuendo; b. State on the editorial page that the opinions expressed are not necessarily those of the college or the student body: Follow district policies, individual publications policies (The Campus and other C. publications of information and the free flow of ideas as a public forum. 2. Students shall have the right to take stands on issues, the right to examine and discuss questions of interest to them, and the right to support causes by orderly means which are in harmony with the regular functioning of the institution. Students shall have the right to hear speakers on any subject, and on-campus recognized student organizations shall have the right to present speakers on any subject. In addition, students shall have the right of free assembly on campus subject to regulations that concern the regular functioning of the institution, to ensure that there is orderly scheduling of facilities and adequate preparation for the event. The recognized organizations, together with the Student Activities Office, shall be responsible for following the policies for scheduling and use of facilities for campus activities. 4. Students shall have the right to form an organization around any particular interest; this right will include the freedom to organize and join student organizations subject to published associated student and district regulations. 5. Students shall have the right to be informed on all campus matters that can be shown to be directly relevant to them by having a voice in decision-making that affects their academic future with the exception of staff appointment, termination, and tenure. In case of conflict in determining what campus matters are relevant to students, the determination will be made by the Committee on Student Conduct and Grievance. 6. Students shall have the right to have their academic records treated in a confidential and responsible manner with due regard to the personal nature of the information these records contain. Student's records will be released only on the written consent of the student, according to the law. 7. Students shall have the right of protection against prejudiced or capricious academic evaluation. At the same time, however, students are responsible for maintaining standards of academic performance established for each course in which they are enrolled. 8. Students shall have the right to receive the quality education as outlined in this catalog and in the Education code, Title 5, and the Code of Ethics of the teaching profession. 9. Students shall have the right to file a grievance under the procedures of the district student grievance policy which provides a prompt and equitable method of resolution.

## Student Rights and — Responsibilities

## Student Record Privacy Rights and Access to Students' Official Records

Student's educational records essentially contain the forms and records submitted for admission plus pertinent information accumulated during the period of enrollment at College of the Sequoias. These usually include high school and sometimes other college transcripts, application and health forms, entrance tests scores, and any correspondence students may have had with the College. As the student progresses through college, his transcript of record is added along with various routinely used materials such as counseling, program changes, attendance and deficiency forms.

In compliance with the law, a student's educational records may not be released to most agencies or individuals outside the college, including prospective employers without the expressed written consent of the student. Students referring agencies or individuals to College of the Sequoias for their records should, therefore, provide the inquiring agency with a signed, dated statement granting permission for record access.

Certain kinds of information may be made available without a release. Such information is known as "directory information" and consists of one or more of the following items: Student's name, address, telephone number, date and place of birth, major, class schedule, activities, dates of attendance, degrees and awards received and institutions attended. Any student wishing to deny the release of his/her directory information may do so by indicating under the Family Education and Privacy Act Section on the COS Application.

Students desiring to do so may have access to their record files. Counselors will be happy to review record with students on an appointment basis. In event of inaccuracy or misrepresentation, students have the right of challenge through petition of the Academic Review Board.

Copies of currently enrolled students' class schedules are placed on the receptionist's desk in the Student Services Center. These are provided for general on-campus use of students and, occasionally, others trying to locate individual students. Any student not wanting his class schedule available for use has the right to have it removed. This may be accomplished by completing and filing a form in the Student Services Center denying such access. This form must be filed each semester the student wants access denied.

#### **Student Grievance Procedure**

College of the Sequoias has adopted a student grievance procedure under which students who feel that their rights have been abridged may appeal their cases to a committee composed of representatives from the administration, faculty, and student body. A full description of the procedures is available upon request from Student Services.

Anyone desiring additional information or wishing to file a complaint in regard to the above statement should contact the Vice President of Student Services.

## 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 of 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 Vice President of Student Services 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 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 or in cases of emergencles, contact the office of the Dean of Students at 730-3774. 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.

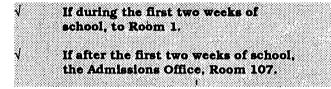
## Student Rights and — Responsibilities

### **Dropping a class**

#### IT IS THE STUDENT'S RESPONSIBILITY TO DROP A CLASS IN WHICH HE/SHE NO LONGER WISHES TO BE ENROLLED.

<u>Non-attendance does not release the student from</u> this responsibility.

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



### 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.

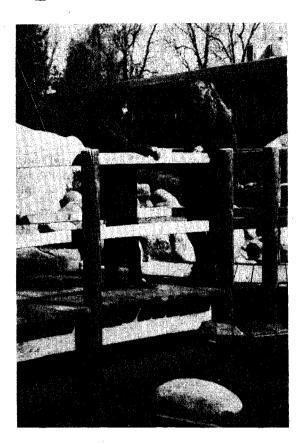
#### Messages

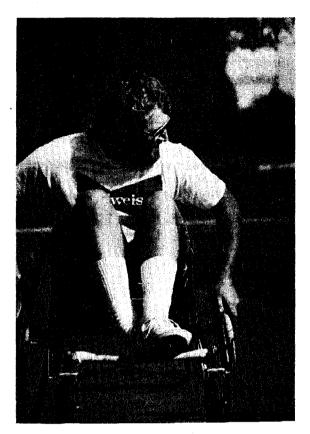
The college cannot relay any personal communication for such things as medical appointments, car breakdowns, lost keys, employer contacts, transportation problems, jury duty, etc.

## **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

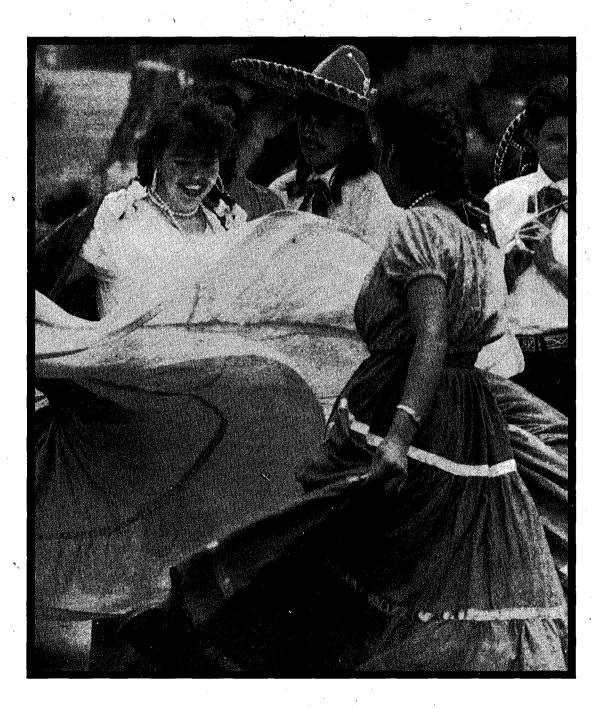
## Students Rights and Responsibilities ——







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### **Counseling Services**

Counselors at College of the Sequoias provide complete educational and career guidance services. They meet with students on an individual or small group basis for a range of purposes: interpreting the assessment scores, recommending further assessment/testing, determining specific courses for immediate and future registration, developing a student's Educational Study Plan, identifying a person's concerns for referrals and services, and supporting the progress and successful achievement of the student's goal through follow-up services. Personal and social concerns are also addressed 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. This information is usually documented in an Educational Study Plan which reflects the current goal of a student. Students wishing to change their goal should see a counselor to revise their Educational Study Plan.

Counselors are available during the day either by appointment or on a walk-in basis. Evening counseling is available on Wednesday 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 on the main campus may call or stop by the Counseling Office located in the Student Services Center. The telephone number is (209) 730-3741, or 730-3715. To schedule a counseling appointment on the Hanford campus, students may call (209) 583-8373.

### **Orientation Services**

Orientation is a required activity for all new matriculated students at College of the Sequoias. A comprehensive orientation program entitled STEPS (Student Educational Planning System) TO SUC-CESS includes an hour general information session, a campus tour, a small group advising session, an individual counseling appointment, and an Educational Study Plan. After this 2-3 hour process, a student is then ready to register for classes. Student populations are offered an alternative one-hour session of orientation with the permission of the Associate Dean of Student Services. Matriculation.

Extended Orientation occurs during the academic semester. It is a set of college survival workshops offered to assist students in the development of their study skills throughout the semester. Math and Test Anxiety, Study Skills, and Time Management are examples of some popular workshops. Contact the Student Services Center for information regarding the dates and locations of the workshop.

### 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 and detailed instruction booklets will be

## Student Financial Aid Programs (Continued)

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 103B.

#### 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 \$4,000 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 103B. The deadline for submitting scholarship applications is February 19.

#### **Transfer Center**

The Transfer Center offers many services to help students prepare for transfer to a four-year institution. Examples of available services include: regularly scheduled visits by representatives from four-year colleges and universities; university campus tours; specialized workshops; monthly calendar of transfer activities; assistance with completing application forms; "Transfer Day" to provide information about four-year institutions; catalogs and a reference library; applications for the CSU and UC systems; and information sheets regarding the CSU and UC admission requirements.

#### **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 may 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 60,000 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.

Added in January 1992 to the main reading room has been an on-line public catalog for improved access to the book collection. Books added from January 1992 forward 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. Users should generally use both the OPAC & card catalog. The Reference Room, on the second floor, houses an extensive reference collection of 10,000 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 audio visual laboratory include audio tapes, 35 mm slides, filmstrips, pamphlets, phonograph records and video tapes.

Coordinating and overseeing these areas, a staff of three full-tme and one part-time 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 Sequoias 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 103B.

### 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 at 730-3854 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; and adapted physical education. 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, (IDD 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, Eating Disorders, and Co-Dependence Support groups meet in the Health Center on a weekly basis. A rest area and some over-the-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, California Student Association of Community Colleges Representative (CalSACC), and Student Board of Trustees member.

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 student peer advisors 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.

#### **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 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. Traffic accident reports for insurance purposes
- 3. Escort service from building to parking areas
- 4. Patrol of buildings and parking areas to aid in crime prevention
- 5. Campus lost and found
- 6. Investigations of theft and other crimes
- 7. Security functions at COS-sponsored special events
- 8. 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 730-3999.

### **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 scheduled 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.

#### 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 before class or wait until after the first class session.

Refunds are given during the first three weeks of the semester on textbooks. NO REFUNDS WITHOUT A CASH REGISTER RECEIPT. See brochures at bookstore for refund details.

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, athletics, music groups, clubs, assembly programs, community service projects and social activities. Further information on any activities can be obtained through the Student Activities Office.

### **Audio Visual**

The Library's audio visual services for students are available in the Audio Visual Department located on the ground floor of theInstructional Media Center (IMC) behind the library.

Students may check out and use audio visual material in the audio visual laboratory and preview rooms. Awide 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 (EOP&S)

Extended Opportunity Programs and Services (EOP&S) is a state funded program that provides target recruitment to those students identified as being financially or educationally disadvantaged. Academic and personal counseling is emphasized and progress is monitored. Tutorial supportive social services and student advisors are available for student success.

A special Summer College Readiness Program is offered to entering freshman. Students who feel uncomfortable starting college or are having problems trying to make it through college, should visit the EOP&S office in Room 103A for information and assistance.

#### 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 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, supe<u>rvised</u> 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 and Health Center.

#### **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.

**0** 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 breadth 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 numbered from 1 to 299, 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 Dance, Intercollegiate Athletics or Physical Education general activities courses. Students 21 years of age and over at the time of graduation are exempt from this requirement. A medical exemption is available.
- Two units of Personal and Community Hygiene. This requirement is satisfied by completion of Hygiene 1\* or Hygiene 7\*.
- English 251, Business 184, or 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:

#### Area A1 - Written Communication

English 1, 1H English 251 Business 184

Note: Grade of "C" or higher is required in Area A1.

 Degrees in Registered Nursing are exempt from this requirement. Veterans exempt with approved DD214 or DD295.

### **Requirements for Graduation** (Continued)

#### <u>Area A2 - Oral Communication and</u> <u>Critical Thinking</u>

Ag 201 Business 20, 119, 125, 295 Computer 5, 6, 7 English 2 Journal 7 or Poli Sci 7 Philosophy 25, 120 Speech 1, 4, 105, 108 Any Math course numbered 1-299

#### Area B - Natural Science

Ag 3 OH 101 Nutr/Food 18 Any Science course numbered 1-299

<u>Area C - Arts, Literature, Philosophy,</u> <u>and Foreign Language</u> A minimum of 3 units chosen from the following:

Arch 10, 20, 21, 120, 121a-c Art English 253 Fashion 179 Foreign Language Humanities 1H Interior Design 121, 124 Literature Music Philosophy Sign Language Theater Arts/Cinema Arts

<u> Area D - Historical and Political</u> <u>Institutions</u>

History 17 or 18, 18H Poli Sci 5, 5H Social Science 276

#### <u> Area E - Understanding and Self</u> <u>Development</u>

Business 182, 188 Consumer/Family Studies 80, 186 Child Development 39, 42 Interior Design 121 Psychology 39, 250 Any Social Science course numbered 1-199 or any course listed in Areas A1, A2, B, C, or D.

- The Associate of Arts degree requires a major consisting of at least <u>20 units of satisfactory</u> work, 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 satisfactory 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 major classes required for licensing.

#### **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

- -- Score of 28 or higher on COS Grammer 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

## 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. Students must have a graduation checklist completed prior to submitting their application. 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.

## **Competency Certification** (Continued)

### 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

#### **Mathematics**

- -- 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 or equivalent courses
- -- Math 230 or higher math with a grade of "C" or better
- -- Pass Math competency exam with a successful score (at least 70 percent)

#### 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 career 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.

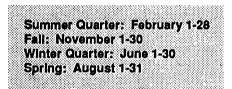
Four year colleges and universities require students to complete specific general education requirements as well as major requirements for the baccalaureate degree. <u>Students should work toward completing both</u> general education and lower division major requirements prior to transfer. The Counseling Office maintains 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 the "University of California Transfer Course List" in this catalog 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**



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, be 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<sup>•</sup> at the time of high school graduation and have been in continuous attendance in an accredited college since high school<sup>\*\*</sup> 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

1.

2.

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:

The **California State University General Education Certification** which will fulfill the lower division breadth/general education requirements for all CSU campuses.

- 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 apply all 39 units toward the 48 unit minimum general education requirement.

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

A1	Oral Communication	Speech 1, 4, 105*, 108
A2	Written Communication	English 1, 1H
A3	Critical Thinking	English 2, Philosophy 25, 120,
	_	Bus 125, Speech 105*

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

\*Courses with astericks can be counted in ONE AREA ONLY.

# 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 1, 2, 20, 21 Geology 1, 12, Meteorology 1 Physical Science 12, 12H Physics 5, 6, 7, 20, 21

#### 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

### Area C: Arts, Literature, Philosophy and Foreign Language (9 units minimum). 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, 103

**GROUP 9:** Fash 179, Int Des 121, 124

**GROUP 10:** ARCH 10, 20, 21, 120, 121a-c

# 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 and 2.

- **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 10, Geography 2, 3, Child Dev. 39\*, 42

#### California State University

### **General Education Certification**

### For Transfer to CSU

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

Psychology 1, 10, 133, Sociology 1, #126, Nutr/Food 18, Child & Family Studies 80, #126, 186 English 114a, 114b, Child Dev 39•

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

\* Courses with astericks can be counted in ONE AREA ONLY.

#### 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.

#### 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: English Composition 1 course, 3 semester units

English 1, 1H

Group B: Critical Thinking - English Composition 1 course, 3 semester units

English 2, Philosophy 25

Group C: Oral Communication - (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\*, 75\*, 76\*, 77, 80, 81

## Intersegmental General Education Transfer Curriculum

## For Transfer to CSU and UC

#### **AREA 3. ARTS AND HUMANITIES**

Art

**Humanities** 

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,

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

#### Group B:

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, Spanish 3\*, 4, 12, 23\* French 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, 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:

<u>Biological Sciences:</u>

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 1 French 1

## 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 in this catalog 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.

## **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 Transfer 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- ulsite.
(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) Foreign 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 to.

The Intersegmental General Education Transfer Curriculum is listed on page 59. 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 as of June 1992. However, this list is subject to change as it is currently being reviewed by the University of California. Check with the Counseling Office for updates:

#### ACCOUNTING

1, 2

#### **ADMINISTRATION OF JUSTICE**

11\*, 12\*, 13, 14

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

#### AGRICULTURE

3, 4

#### AGRICULTURE MANAGEMENT

1

#### 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

#### **ASTRONOMY**

10

#### BIOLOGY

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

#### **CONSUMER/FAMILY STUDIES**

6+, 7+, 80

Note: Child & Family Studies 6 & 7 same as Art 6 & 7 +See Art 6 & 7 for limitation

#### **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

#### ENGLISH

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

<u>HISTORY</u>

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

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

#### HUMANITIES 1H

#### **HYGIENE**

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

#### 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

#### **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 through 14d\*, 15a-d, 18a through 35b\*, 36, 41a through 57d\*

\*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, 39

### SOCIOLOGY

1, 2

#### **<u>SPANISH</u>** 1, 2, 3, 4, 12, 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

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

#### THEATRE ARTS

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

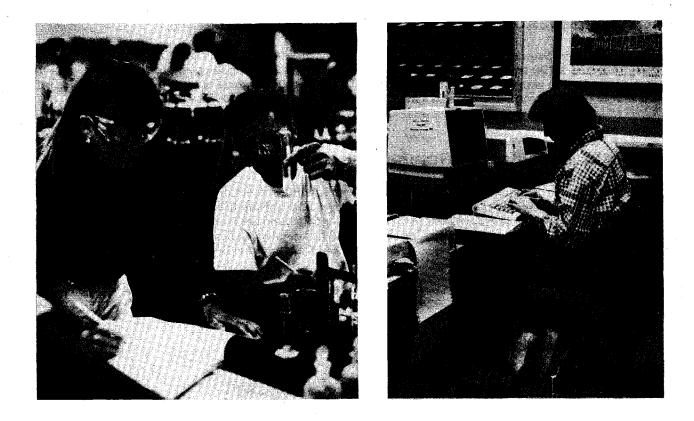
+Any or all of these courses combined: maximum credit allowed, 12 units

### **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.

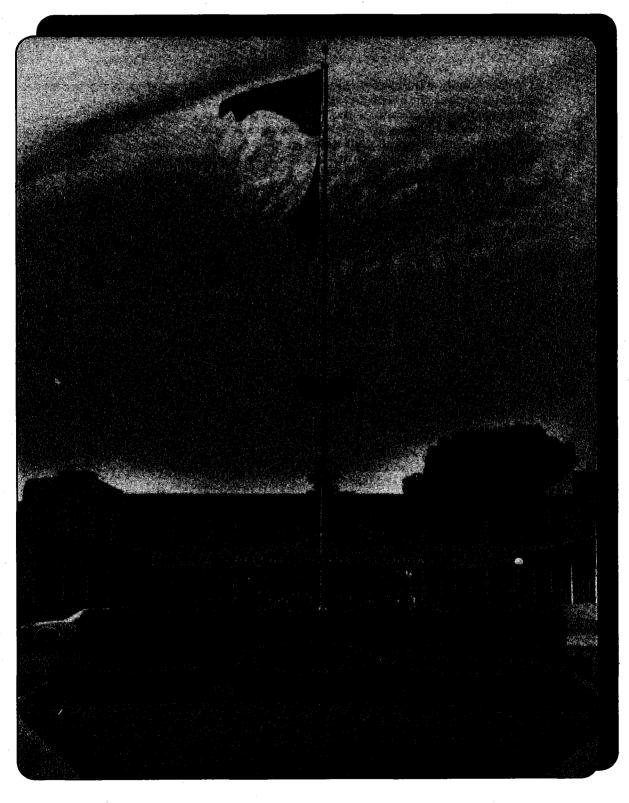
### **California Articulation Number System**

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.





## **Divisions**

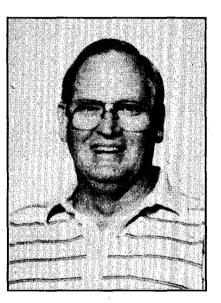


## Divisions

## Agriculture Division

Tulare County is the nations leading Agriculture producing county in the nation and agriculture is the largest industry in California. Although technology and management efficiency have changed the number of people living and working directly on farms, the number of positions in the nonfarming segments of agriculture have increased dramatically. A graduate from the College of the Sequoias Agriculture Department can look forward to an exiting future in agriculture-related occupations in the business industry, specialized services, education, conservation and recreation, as well as production.

College of the Sequoias offers 13 agriculture certificates ranging from Floral Production to Dairy Science to Ag Pest Management and Ag Mechanics. These programs reflect the growing diversity and skills required in modern day agriculture and its related professions.



The College of the Sequolas Agriculture Department is located on a 200-acre farm which includes animal production flocks and herds, a 73 cow dairy, an extensive nursery including four greenhouses, as well as 180 acres of cotton, alfalfa, barley and or corn.

The Agriculture Department has recently updated its computer laboratory to one of the newest and most complete on the College of the Sequoias campus. The college provides an opportunity to learn the fundamental skills involved in the care, maintenance, and operation of agricultural equipment and facilities.

A supervised work experience program is an important part of instruction, which links the college with industry and provides valuable experience for our graduates.

The Agriculture Club is the largest campus club and is open to all students enrolling in agriculture classes. The Ag Club hosts such activities as Ag Mania, an open house for the department, and a booth at the California Farm Equipment Show. In addition to these activities the Ag Club, along with the department, host an intercollegiate horse show, various plant sales and floral shows, intercollegiate judging teams, and contests in meats, milk and dairy judging.

Faculty in the Agriculture Department are experts in their disciplines and are dedicated to teaching. They are eager to help students learn, are readily available for consultation and are proud of their close relationship with students.

## Bill Downes, Chairperson

## **Divisions**

## **Business Division**

The COS Business division continues to keep pace with the work force needs, providing the instruction necessary to prepare for today's job market. With the ever-increasing need for computer skills, the Business division provides hands-on experience in DOS, Word Perfect 5.1, Quatro Pro, DBase III+, PageMaker 4.0, telecommunications, microcomputer accounting, BA-SIC, and COBOL. To meet the need for computer experience, the Business Division offers beginning course work as well as full semester courses in each of the softwares.

A student may select a concentrated field of study in accounting, general business, marketing, computers, information services/word processing, real estate, paralegal or secretarial. Any of these fields will lead to a certificate when the student completes approximately 30 units in their chosen area. In order for a student to qualify for a certificate, a minimum grade of "C" must be achieved in each required class. The course work is



designed for the student choosing to attend school full time or for the student desiring to upgrade a specific skill.

The Business Division's curriculum is designed to provide the course work necessary for transfer to a four-year university, to receive an AA/AS degree, or to be job ready. We have

### Jenny Glass, Chairperson

## **Consumer/Family Studies**

#### Focus of Consumer/Family Studies

The focus of Consumer/Family Studies is to improve the quality of life for individuals and families. Our classes do this by helping students fulfill transfer and AA/AS degree general education requirements, achieve vocational goals, enrich lifestyles, expand horizons, develop imaginative outlets for creative talents and leisure time, explore alternate methods of using resources and update everyday skills and knowledge.

#### Areas of Study

The following are the general areas of study taught in the Consumer/Family Studies Division:



Child Development is designed to help students develop an understanding of the uniqueness of children and relationships with them. The child development

program provides classes for persons wanting to work in private day care and nursery schools; classes to earn a Children's Center Permit for employment in state or federally funded programs; classes for infant/toddler care; classes in administration for director qualifications; classes for a special education option; classes for an AA/AS degree in child development; and/or classes for a transfer option. Child Development 42 counts as an Area D transfer general education class; Child Development 39 counts as either an Area D or an Area E transfer general education class; and CFS 80 counts as an Area E transfer general education and certificates for employment are available in the child development program.

Consumer Economics is designed to help students adapt to the complexities of consumer decision-making. Emphasis is on money planning, credit use, insurance and consumer protection suit able for an individual's or family's lifestyle. CFS 186 counts as an Area E transfer general education class.

Fashion is designed to help students become familiar with individualizing current fashion and personal image trends to their vocational and personal needs. The fashion program provides classes for persons interested in fashion merchandising, fashion design, color/ image or modeling and includes classes for an AA/AS degree and/or a transfer option. Fashion 179 counts as an Area c transfer general education class. Four kinds of vocational certificates for employment are available within the fashion program.

Food Service provides classes to help students obtain or upgrade employment in the food service industry. A vocational certificate for employment is available through the food services program.

## **Consumer/Family Studies**

Foster Care is designed to help foster parents become trained in the situations and problems specific to foster parenting. Certificates of participation are issued for each of the non-unit foster care classes attended.

Interior Design is designed to help students gain more knowledge relating to the color, design and space of housing and furnishings, as well as evaluating the use, purpose and adaptability of housing and furnishings. It includes classes for an AA/AS degree and/or a transfer option. Interior Design 121 and 124 count as Area C general education classes. A vocational certificate for employment is available in the Interior design program.

Marcy Hall, Chairperson

## Fine Arts

The Fine Arts Division represents the Performing and Visual Arts here at College of the Sequoias. We have recently added Dance Arts and Photography to our already involved Division.

We have also added some new classes to our curriculum which expands our Division even more. In our Instrumental Music Department we have added a Percussion Ensemble class this Spring, and in the Fall of 1992 we will be adding an Intermediate and Advanced Guitar class being taught by a Professional Classic Guitarist. In the Spring of 1993 we hope to have a String Class offered. Our Instrumental Program has many talented people. We have performed all over the State, winning awards with the Jazz Ensemble and the Dixieland Band will be performing at the Sacramento Jazz Festival the Month of May.



Our Theater Department is always involved in presenting plays. Each Fall 1 to 2 plays are offered

and they join with the Music and Dance Department in the Spring of every year to present a musical involving students and community members. This musical is a long -time tradition for COS and Visalia.

Our Dance Arts Department is equally involved in performing by presenting a dance show at the end of each semester featuring the talents of the dance students.

Our vocal music curriculum has seen expansion with the adding of a sight-singing class and an additional voice class. Our music appreciation and theory curriculum continues to be of the highest quality.

Our speech department has added two classes this Spring to its curriculum; Group Discussion and Argumentation and Debate. We are still attempting to get a Forensics team together and we are closer to that goal.

Christmas time has brought to COS our Madrigal Dinner which is a unique experience that gets us all in the mood for the holiday season. The Madrigal involves all the Fine Arts Departments in some capacity, yes, even the speech department (we do a great job waiting on tables).

We recently became the excited recipients of a large scholarship donation from a community member which will assist our students involved with the piano and eventually strings. We will be providing students with these scholarship through competitions each spring.

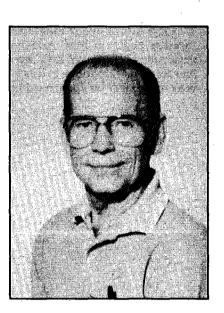
## Marlene Taber, Chairperson

## Fine Arts

The future of our Fine Arts Division is one of expansion and moving forward. We have recently begun a Fine Arts Foundation Fund to assist us in presenting the very finest performing and visual arts we can possible offer to our community. We thank our patronsfor their kind donations to this Foundation. We are planning several events this coming school year which will be sponsored by our Foundation.

Marlene Taber, Chairperson

## Industry and Technology



The COS Industry and Technology division is designed to meet the needs of all level of students interested in furthering their education in the industrial arena. Our seven individual departments provide educational opportunities for transfer students as well as the student seeking job skills for employment. The program also meets the needs of those individuals in the community who are returning to the classroom to further their education or update skills required for their jobs.

The Industry and Technology division offers certificates in automotive Mechanics, Architecture/Drafting, Air Conditioning, building Trades Construction and Mill Cabinetry, Electronics, Maintenance Technology, and Welding. In order to qualify for a certificate, a student must meet minimum standards of proficiency on both written and manipulative tests.

The I&T program stresses "learn by doing" and provides well-equipped laboratory facilities for students.

Ken Broyles, Chairperson

## Language Arts and Communications

The Language Arts Division encompasses several departments: English, English as a Second Language, Foreign Languages, Sign Language Studies, and Journalism. Courses offered in the division meet the Area C requirements for the AA/As degree and for transfer to the CSU system; many also fulfill the Area 3 requirements to the UC system. Spanish or French fulfill foreign language requirements of the UC system as well.

Almost all students at College of the Sequoias take classes in composition. Faculty in the English department help students improve their foundation skills in reading and writing—skills essential for all major fields and we begin work with students whatever their entering skill levels. In addition, we offer a variety of courses in literature, from an Introduction to Literature to more specialized courses like Shakespeare, American and British Literature, Women in Literature, Black and Chicano Literature, and World Literature. Several on staff are published writers, and students can benefit



from these staff members' experience in creative writing courses. Our advanced composition course —like many other courses we offer—sharpens critical thinking skills and is one of a very few that COS offers to meet the critical thinking requirement of the CSU and UC transfer package. Majoring in English prepares students for specific careers in teaching and law fields, and increasingly, employers in business fields look for strong English and thinking skills in their applicants. Moreover, because of the close look literature offers into our human spirit, the English major draws people who want to explore the great struggles in love, death, wealth, poverty, initiation, among others—of this spirit and thereby live their own lives more deeply.

Coursework in English as a Second Language is intended for students whose first language is one other than English. The program differs from that offered through the adult school in its rigor and focus. Courses make college-level demands on students, requiring intense study in and outside of class, and they focus on academic reading, writing, speaking and listening skills, rather than the life-skills focus of the adult school program. Beginning courses are designed for students with minimal skills in one or more of the reading, writing, speaking and listening areas; advanced courses are equivalent to the developmental composition courses in the English department but stress improvement of the skills with an emphasis on the special needs of the non-native speaker. The program seeks to support and encourage students as they take coursework elsewhere in the college curriculum, and thus many students take courses simultaneously in ESL and in other disciplines.

The Foreign Language department offers coursework in German, French, and Spanish. The German program emphasizes conversational German, and the French and Spanish programs too offer this strand. In addition, French and Spanish offer coursework through the fourth level. Beginning courses emphasize language acquisition; more advanced courses engage students in the study of the literature from these cultures. The

Candace Byrne, Chairperson

Spanish program offers many sections, both for English speakers who wish to learn Spanish and for Spanish speakers who wish to perfect their written skills and conceptual awareness of the language. The Spanish program has been particularly active, sponsoring the campus MECHA Club, producing a newspaper in Spanish, inviting high school students to a Chicano-Latino Youth Conference, and offering students opportunity for study abroad every other year. The Spanish program also offers Spanish for particular professions, most recently Spanish for agriculture and for court interpreting.

With the addition of a full-time Sign Language Studies instructor in 1990, the College is committed to the growing interest in this field. The program has expanded study of American Sign Language through the fourth level—like the offerings in the Foreign Language department—and as enrollment continues to grow, we plan further expansion to prepare students for state certification as interpreters for the deaf.

The Journalism department is responsible for the production of the campus newspaper, called <u>The Campus</u>. Students interested in journalism can gain invaluable experience, seldom offered to students in their first two years at a four-year college, in all areas of newspaper production, from news- and editorial writing, to photojournalism and layout. The new journalism computer lab offers students the opportunity to use word processors for composing news stories, an environment that simulates production of local and national newspapers. In addition, the course in Mass Communications meets a transfer requirement in Area 4 for the CSU and UC transfer student under the IGETC agreement.

## Math, Science, and Engineering

The Division of Math, Science and Engineering is one of the largest divisions at College of the Sequoias. It consists of the Departments of Biology, Chemistry, Mathematics and Physics/Engineering. Major programs are offered in each of these disciplines. Each of these areas offer a transfer program to either state colleges or universities.

The Biology Department offers a wide variety of courses for non-majors and majors alike. The department also offers the courses needed for students entering the health-related fields, such as nursing, dental hygiene, physical therapy and sports medicine. The Biology Department participates in and offers courses for the Honors Program.

The Chemistry Department offers courses for chemistry majors and for the health-related fields. This is one of the very few community college chemistry departments that offers the second year of chemistry for majors, specifically Organic Chemistry.



The Mathematics Department provides educational opportunities ranging from basic math to calculus. The department also offers courses in courses in statistics and computer programming. This department participates in the Success Program which is designed to help under-prepared individuals succeed at college.

The Physics/Engineering Department offers the first two years of courses necessary for engineers. The department has a transfer agreement with Cal Poly at San Luis Obispo which automatically accepts transfers from this program into the third year of study. This department also participates in the Success Program. Other related courses taught here include Astronomy and Geology.

## Thea Trimble, Chairperson

## Nursing

## LYNN HAVARD MIRVISS, DIRECTOR

#### **General Information**

The College of the Sequoias Division of Nursing and Health Science offers a variety of courses and programs for students interested in the health care field. Included among these are a nurse assistant course, an emergency medical technician course, an Associate Degree Registered Nurse Program and a variety of courses designed to meet the continuing education needs of current practitioners. Educational programs are planned to help the student maximize his or her potential and to enhance career mobility.

The nursing curriculum integrates scientific knowledge of professional nursing and general education courses to fulfill requirements of the College of the Sequoias and the State of California. Nursing and general education classes are taken on the college campus and nursing laboratory classes are offered in



selected hospitals and community health care agencies. The nursing faculty is directly responsible for teaching nursing classes and supervising clinical experience.

The purpose of the Nursing and Health Science Division is to provide a sound program for the education of students in the nursing and health care areas and to provide beginning practitioners to safely and effectively meet community nursing needs. The Nursing Division welcomes applications from qualified men and women of all ages, races and ethnic origin groups. Students who are interested in nursing education, are encouraged to visit the nursing division office for additional information. Regular monthly information meetings are scheduled by the Nursing Division for all students interested in nursing education. Dates and times are available in the nursing office, the counseling office and in the college bulletin.

#### Philosophy

The faculty of the College of the Sequoias Nursing Division bases their educational philosophy for the nursing division on the belief that:

Nursing, utilizing a body of knowledge from the behavioral, physical, and biological sciences, is directed toward meeting the total nursing needs of the patient and/or significant others. The art and science of nursing is incorporated by utilizing the human needs approach and the nursing process. Within the health team, the nurse independently, interdependently, and dependently contributes toward the common goal of prevention of illness, and the maintenance and/or restoration of health.

## Norma Freeborn, Chairperson

## Nursing

The person, family and/or significant others needing nursing intervention, are seen as dynamic systems with real or potential health problems. These individuals have a right to participative health care and knowledge.

The nursing program seeks to address the role of nursing in meeting the varied health care needs of the community. The college district includes a wide diversity of cultures, rapid population expansion and comprehensive urban and smaller rural health care settings.

The nursing student is an adult learner and as such is considered an active participant, with increasing responsibility, for independent learning. Learning is dependent upon the student's ability, motivation, and readiness to learn, and the student-teacher environment. The student is afforded the opportunity to acquire and utilize knowledge and skills that will aid in the attainment of personal and professional goals.

Committed faculty involvement is essential to and inherent within this program. A student-teacher ratio that assures quality academic, professional, and personal relationships is supported. With active community support and approval, this program uses a variety of educational settings including, but not limited to, the classroom, skills laboratory, hospital, clinic and the home.

This educational program prepares nurses for beginning positions in hospitals and other community institutions; it serves as a basis for further education and specialization enables the graduate to become a contributing member of professional nursing.

#### Registered Nursing

College of the Sequoias Registered Nurse Program is a two year program leading to an Associate in Science degree. This program is accredited by the California Board of Registered Nursing and successful completion of the nursing requirements qualifies the graduate to apply for admission to the California Licensure Examination for Registered Nurses.

#### **Admission Requirements**

In addition to meeting College of the Sequoias academic standards for admission, the applicants must be in good standing and satisfy the following requirements:

- 1. Residency in the College of the Sequoias College District (first priority). Residency in a adjacent school districts which do not have an RN program (second priority).
- 2. Graduation from an accredited high school with a G.P.A. of 2.5 or higher, or equivalency (GED).
- 3. Maintenance of a 2.5 or higher G.P.A. on academic work attempted beyond high school.
- 4. Satisfactory scores on the Scholastic Aptitude Test (S.A.T.) or the American College Test (A.C.T.).
- 5. Successful completion of the COS Associate Degree Nursing math qualifying exam with a grade of 85% or higher. Applicants will be notified of the test dates. Applicants are given two opportunities to take the test, and if are unsuccessful after the second attempt, they are advised to seek remedial measures.

## Norma Freeborn, Chairperson

## Nursing

- 6. Completion of Nutrition 18, Biology 30 (anatomy), Biology 31 (physiology), Biology 40
  (microbiology), Chemistry 20, and English 1 at the College of the Sequoias, or equivalent classes at other accredited colleges. Physiology and microbiology must be completed within five years of entry into the nursing program.
- 7. Satisfactory completion of college application and nursing information forms and submission of high school and college transcripts for all schools attended previously.
- 8. Students must provide own transportation to clinical agencies and must have a valid California drivers license, access to transportation, and insurance as required by (California law.

#### Curriculum

First Semester Nursing 101 Nursing 122	<b>Units</b> 10 3	Third Semester Nursing 103 Speech 1 or Speech 4	<b>Units</b> 12 3
Nursing 106, Sociology 1,		Humanities	3
or Anthropology 10	3	• •	· · ·
Total	16	Total	18
Second Semester	Units	Fourth Semester	Units
Nursing 102	12	Nursing 104	13
Nursing 110	2	History 17 or 18, or	
Psychology 1	3	Political Science 5	3

17

Total

#### Scholastic Requirements

To remain in the nursing program, students must maintain a grade of "C" or better, in all nursing and other required classes. Policies regarding admission, transfer and challenge, retention, grading and probation, and graduation are available in the nursing office. Students may take any required general education classes prior to entering the nursing program and are required to complete them by the semester in which they are listed. Physiology and microbiology must be completed within 5 years of entrance to the nursing program.

16

Total

Safe nursing practice is necessary for retention of students in the nursing program. If, at any time, a student's conduct and/or patient care displays a potential harm to the well-being of patients, or if, at any time the physical or emotional health of a student appears such that he or she cannot withstand the program in nursing, based on the professional judgment of the faculty, the student may be asked to terminate from the nursing program. The amount of time that can be lost in any nursing course, for any reason, will be determined by the Nursing Student Handbook.

Norma Freeborn, Chairperson

# **Divisions** Nursing

#### **Application Procedure**

A class is admitted to the RN Program each semester. Final date for filing applications for each fall class is January 15. The deadline date for receipt of required supporting documents is January 30. The final filing date for each January class is July 15. The deadline for receipt of required supporting documents is July 30. Applicants are encouraged to file their applications as early as possible and not wait until the deadline. Application packets are available in the nursing office.

## Norma Freeborn, Chairperson

**Physical Education** 



COS has attempted to provide a two-phase physical education department. First it offers a sound introduction program for the student who is attempting to pursue physical education as a career. Secondly, COS offers a broad, well-rounded program of activity classes for students and community members who want to lead an active and healthy life.

The facilities include a newly equipped gym and weight room, dance studio with mirrors and ballet bars, special handicapped facilities, a football field, and a regulation track. Baseball and softball fields are on campus as well as a swimming and diving pool. There are also tennis, handball, racquetball and volleyball courts. Most recently the department has added a new sports medicine and training center.

## Tracy Myers, Chairperson

## Social Sciences

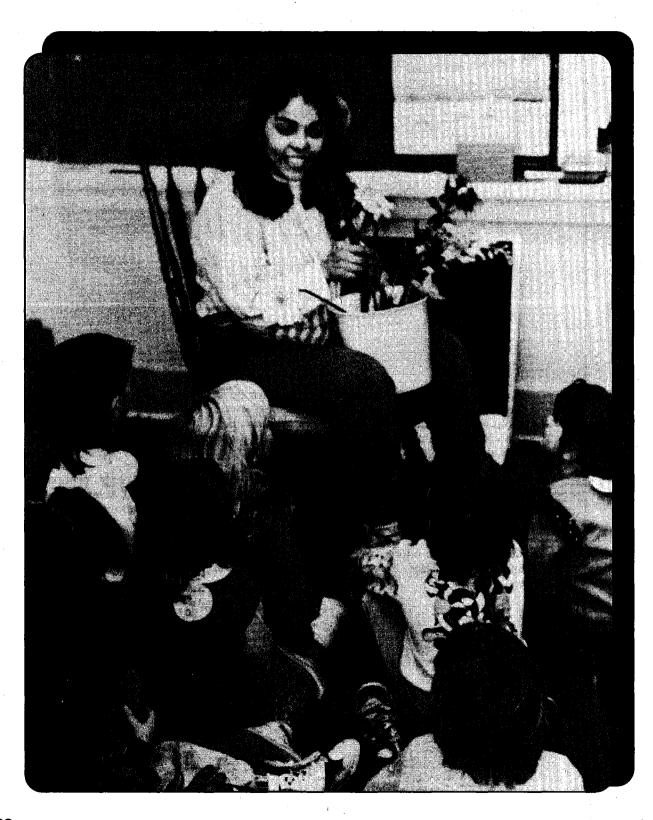


The goal of the Social Sciences Division is to provide an appreciation of the rich diversity and the fundamental commonality of all human experience. The Social Sciences constitute studies in human behavior, individual and collective past and present, distant and local. Their intent constitutes a search for greater social justice, personal freedom and mutual understanding.

The division offers courses in administration of justice, anthropology, economics, education, geography, history, human services, philosophy, political science, public administration, social science, and sociology. These courses will satisfy transfer, associate degree and general education requirements.

The division also offers career training in the following areas: human services and administration of justice. Programs in these two areas lead to a certificate or to an AA or AS degree.

## Waino Peterson, Chairperson



o person shall, on the grounds of sex, race, or national origin, be excluded from participation in, be denied the benefits to, or be subjected to discrimination in any vocational education program at College of the Sequoias.



AA/AS Degree Requirements: All courses listed as required for certificates on the following pages will apply toward the AA or AS degree. Students interested in obtaining an AA/AS degree should refer to the "Graduation and Transfer" section of this catalog for the General Education requirements necessary for a degree. Counselors can help you design your program and verify that you are meeting the requirements.

## **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:

## <u>Certificates of Completion:</u>

- 1. Certificates of completion are issued to those students completing a prescribed vocational study program consisting 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. Substitutions or waiver of required courses based upon 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.

#### **<u>Certificates of Participation (Short Term):</u>**

- 1. Certificates of Participation are issued to those students completing a class or series of classes requiring less than twelve 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. Substitutions or waiver of required courses based upon 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.

## **Certificates of Participation (Short Term):**

Advanced Officer Training Emerg Medical Technology Foster Parent/Social Worker Team Learning Disabilities Level III Reserve Officer Training Pre-Academy Waste Water Treatment Fundamentals Children of Alcoholics EMT Refresher Hazardous Materials First Responder Awareness Level Level 1 Reserve Officer Training Livestock Theft and Rural Crime Investigation The Unattached Child Water Treatment Fundaments

Disruptive Behavior Foster Care Sexual Child Abuse Hazardous Materials First Responder Operations Level Level II Reserve Officer Training Nurse Assistant Occult Crimes Traffic Accident Investigation

## 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 Account program is designed to prepare students to become bookkeepers of junior accountants. Career opportunities are available in government, civil service, business and industry, private accounting firms, and self-employment. There are also accounting specialities such as tax accounting, cost accounting, budget accounting and data processing.

#### **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
5	Accounting 201	General Vocational Accounting
5	Accounting 202	General Vocational Accounting
4	or Accounting 1	Principles of Accounting
4	and Accounting 2	Principles of Accounting
3	Accounting 210	Micro Oper-Accounting General
5	Accounting 282	Individual Income Tax
3	Business 184	Business Communications
3	Business 295	Business Mathematics
2	or Business 268	Electronic Calculating
3	Business 274	Marketing Principles
3	or Business 182	Introduction to Business
3	or Business 188	Human Relations in Business
3	Computer 5	Introduction to Computer Information Sys
4	or Computer 130	Micro Oper-Introd to Personal Computers
3	Computer 131	Micro Oper-Beginning DOS
3	or Computer 138	Micro Oper-Spreadsheet Design for Business

#### **30-33 TOTAL UNITS NEEDED FOR CERTIFICATE**

## Support/Additional Courses:

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

Accounting

# ----- Ag Management

## 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 for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Ag Mgt 1	Introduction to Ag Economics
3	Ag Mgt 102	Agriculture Sales and Marketing
3	Ag Mgt 103	Introduction to Ag Management
3	Ag Mgt 104	Farm Accounting
3	Ag Mgt 105a-d	Computers in Agriculture
3	Ag 193	Work Experience
3	Ag 201	Agricultural Mathematics
9		Required Support/Additional Courses (See below)

30

TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 9 Units)

<u>Units</u>	Course Number	<u>Course Title</u>
<b>3</b> ´	Ag 4	Soils
3	Dairy 103	Commercial Dairy Herd Management
3	OH 101	Basic Ornamental Horticulture Skill
3	Dairy 101	Elements of Dairying
1	Ag 299	Agriculture Topics
2	Ag Mech 101	Introduction to Ag Mechanics
3	Plant Sci 1	Introduction to Plant Science
3	An Sci 1	Introduction to Animal Science

## Ag Mechanics/Engineering Technology

## **Agriculture Division**

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. Farming 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 for Certificate:**

<u>Units</u>	Course Number	Course Title
2	Ag Mech 102a-d	Farm Equipment Construction
3	Ag Mech 104	Farm Machinery
3	Ag Mech 107	Farm Surveying
2	Ag Mech 109	Small Engines and Equipment
2	Ag Mech 101	Introduction to Ag Mechanics
3	Ag Mech 103	Farm Power
3	Ag Mech 105a-b	Farm Structures
2	Ag Mech 106a-b	Farm Welding
1-4	Ag 193-194	Ag Coop/Work Experience
6		Required Support/Additional Courses (
		See Below)

27-30

TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 6 Units)

<u>Course Number</u>	<u>Course Title</u>
Plant Sci 102	Row Crops
Plant Sci 103	Cereal & Oil Crops
Ag 201	Agricultural Mathematics
An Sci 1	Introduction to Animal Science
OH 101	Basic Ornamental Horticulture Skills
OH 108	Landscape Construction
Ag Mgt 1	Introduction to Ag Economics
Ag Mgt 105a-b	Computers in Agriculture
0 0	Soils
Dairy 101	Elements of Dairying
	Irrigation
Ag Mech 110a-d	Ag Project Construction
	Plant Sci 102 Plant Sci 103 Ag 201 An Sci 1 OH 101 OH 108 Ag Mgt 1 Ag Mgt 105a-b Ag 4 Dairy 101 Ag Mech 108

## Ag Pest Management

## **Agriculture Division**

Food production is of primary importance to the ever increasing human population of the world. Both insect pests and plant diseases limit this production Even though the American growers use a variety of pesticides, control for the pests is not adequate or effective for growers.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Ag 3	Economic Entomology
3	Pint Sci 1	Introduction to Plant Science
3	Ag 4	Soils
3	Ag 125	Principles of Pesticide Use
3	OH 120	Pests and Diseases of Ornamentals
3	Ag 105	Fertilizers
3	Ag Mgt 105a-b	Computers in Agriculture
3	Ag Mech 104	Farm Machinery
1-4	Ag 193	Work Experience
6		Required Support/Additional Courses (See Below)

## 31-34 TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 6 Units)

<u>Units</u>	Course Number	Course Title
3	Plnt Sci 12	Fruit and Nut Tree Production
3	Plnt Sci 102	Row Crops
3	Plnt Sci 111	Citrus Production
3	Ag Mech 108	Irrigation
3	Pint Sci 104	Forage Crops
<b>3</b>	Ag Mgt 102	Ag Sales & Marketing
3	OH 101	Basic Ornamental Horticulture Skill
3	OH 104	Nursery Practice
3	OH 109	Landscape Maintenance
3	Plnt Sci 105	Weeds and Weed Control
3	OH 2	Plant Identification 1
3	OH 3	Plant Identification 2

## **Agricultural Science**

## **Agriculture Division**

This course of study in Agricultural Science is designed to give a student the opportunity to develop a variety of skills in Animal Science, Horse Production, Ornamental 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 for Certificate:**

30

<u>Units</u>	Course Number	Course Title
3	Ag Mgt 105a-b	Computers in Agriculture
3	Ag 193	Work Experience
3	An Sci 1	Introduction to Animal Science
3	Dairy 101	Elements of Dairying
3	ОН 101	Basic Ornamental Horticulture Skills
3	Plnt Sci 1	Introduction to Plant Science
2	Ag Mech 101	Introduction to Ag Mechanics
10		Required Support/Additional Courses
	•	(See Below)

TOTAL UNITS NEEDED FOR CERTIFICATE

#### Support/Additional Courses (Choose 10 Units)

Course Number	Course Title
Dairy 102	Milk Production
Plant Sci 102	Row Crops
Ag Mgt 102	Ag Sales & Marketing
An Sci 103	Animal Nutrition
OH 105	Plant Propagation
Ag Mech 104	Farm Machinery
Ag 4	Soils
Ag 3	Economic Entomology
Ag 201	Agricultural Mathematics
Plnt Sci 12	Fruit and Nut Tree Production
	Dairy 102 Plant Sci 102 Ag Mgt 102 An Sci 103 OH 105 Ag Mech 104 Ag 4 Ag 3 Ag 201

**Agricultural Science** 

## **Animal Science and Industry**

Industry and Technology Division

The 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 for Certificate:**

<u>Units</u>	Course Number	<u>Course Title</u>
3	An Sci 1	Introduction to Animal Science
3	An Sci 103	Animal Nutrition
3	An Sci 104	Animal 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
1-4	Ag 193-194	Work Experience
6		Required Support/Additional Courses (See Below)

#### 28-31 7

TOTAL UNITS NEEDED FOR CERTIFICATE

#### Support/Additional Courses (Choose 6 Units)

<u>Units</u>	Course Number	Course Title
3	Ag 201	Agricultural Mathematics
3	Ag Mgt 105a-b	Computers in Agriculture
3	Ag Mgt 104	Farm Accounting
2	An Sci 105a-d	Preparing Livestock for Shows and Sales
2	An Sci 2a-b	Livestock Selection and Evaluation
2	An Sci 108a-b	Meat Grading and Selection
3	Plnt Sci 1	Introduction to Plant Science
3	Ag Mech 104	Farm Machinery
3	Ag 4 .	Soils

## Architecture and Architectural Drafting

## 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 for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Arch 10	Intro to Architectural Environmental Design
3	Arch 11	Environmental Design Fundamentals
3	Arch 20	Introduction to Graphics & Perspectives
3	Arch 21	Basic Graphics
3	Arch 120	Freehand Drawing
3	Arch 131	Light Wood Frame Construction
2	Arch 150	Computer Analysis of Building Energy Use
3	Arch 160	Materials of Construction
3	Arch 161	Computer Assisted Architectural Detailing
4		Required Support/Additional Courses (See Below)

## **30 TOTAL UNITS NEEDED FOR CERTIFICATE**

## Support/Additional Courses (Choose 4 Units)

<u>Units</u>	Course Number	Course Title
3	Arch 40	Strength of Materials
4-12	Arch 121a-c	Perspective Alternatives
3	Arch 141	Stress Analysis
1-3	Arch 141a-d	Independent Study
1-4	Arch 190a-d	Supervised Practice
3	Art 6	Color and Design
3-3	Bld Tr 104 &/or 105	Carpentry (Res. Const.) I &/or II
4-4	Bld Tr 114 &/or 115	Carpentry (Project House Const. 1 &/or II)
4	Drafting 110	Introduction to Computer Assisted Drafting
4	Drafting 111	Computer Assisted Drafting
4	Drafting 130	Introduction to Computer Assisted Cabinet Design
3-3	Drafting 201 &/or 202	Civil Engineering Drafting/Design
5-5	Math 75 &/or 76	Calculus with Analytic Geometry I and/or II
3-3	OH 106 &/or 7	Landscape Drafting &/or Landscape Design
4-4	Physics 5 &/or 6	Physics for Scientists and Engineers
3	Drafting 203	Computer Assisted Civil Drafting

## Athletic Training/Sports Medicine

## Physical Education Division

The Athletic Training/Sports Medicine Program is designed to prepare the students for appropriate procedures in the prevention and care of athletic injuries. As an Athletic Trainer, you will be a team's front line medical professional. In Athletic Training, students will learn and observe many types of care for athletic injuries. This will include evaluation techniques, first aid, treatments and rehabilitation procedures. By taking an active role in these events, you will play an integral part in the athletes practices and competition, and your involvement will play a major role in the athlete's well being and success. As an athletic trainer, you will always find new problems to solve and intriguing challenges to face.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Sports Medicine 40	The Care and Prevention of Athletic Injuries
2	Sports Medicine 70	Sports Medicine, Fall Sports
2	Hygiene 3	Standard First Aid
2	Hygiene 7	Sports Health
3	Sports Medicine 60	Concepts in Health and Fitness
2	Sports Medicine 71	Sports Medicine, Spring Sports
2	PE 36	Introduction to Physical Education
2	Sports Medicine 72	Sports Medicine, Advanced, Fall Sports
4	Chemistry 20	General Chemistry
2	Sports Medicine 73	Advanced Sports Medicine, Spring Sports
4	Biology 31	Human Physiology
2	Math 210	Elementary Algebra - Level A
2	Math 215	Elementary Algebra - Level B
	or	
4	Math 200	Elementary Algebra

## TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses

32

<u>Units</u>	Course Number	<u>Course Title</u>
2	Nutr/Food 119	Nutrition for Fitness, Exercise and Sports
3	CFS 80	Lifespan and Development
2	Hygiene 1	Personal Community Hygiene
3	Hygiene 104	Drugs and Society
2	Hygiene 7	Sports Health
3	Nutr/Food 18	Nutrition
3	Psychology 39	Child Development-DS1
3	Sociology 1	Introduction to Sociology
3	Speech 1	Fundamentals of Public Speaking

## **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 and 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. ALL BEGINNING students must take Auto 100 and 101. Auto 100 and 101 may be taken with Auto 102, 103, 104, 105, 106 and 109. Auto 107 cannot be taken until 106 is completed. Auto 108 and 113 cannot be taken until 100, 101 and 102 are completed. Auto 108 and 113 should be taken concurrently. A student may complete a certificate in one year by following a prescribed course of study.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
1	Auto 100	Bench Work and Safety
4	Auto 101	Automotive Electricity
3	Auto 102	Fuel and Cooling Systems
4	Auto 103	Automotive Engines
3	Auto 104	Auto Power Train Analysis
3	Auto 105	Brakes and Alignment
4	Auto 106	Automatic Transmissions
3	Auto 107	Advanced Auto Transmissions
5	auto 108	Automotive Engine Tune Up
3	Auto 109	Air Conditioning/Accessories
3	Auto 113	Computerized Engine Control
4	Auto 263a-d	Clean Air Car Course

40

TOTAL UNITS NEEDED FOR CERTIFICATE

**Support/Additional Courses:** The following courses may be substituted for required courses. Permission to substitute must be obtained from the program coordinator.

<u>Units</u>	Course Number	Course Title
1-3	Auto 190a-d	Supervised Practice
4	Welding 161	Oxy-Acetylene Welding
3	Acct 287	Accounting for Service Businesses
2	I&T 351*	Industry and Technology Math

\*Does not apply toward degree.

## **Building Trades, Construction 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, 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 for Certificate:**

<u>Units</u>	Course Number	Course Title
2	Bld Tr 200	Drawing for Building Construction I
2	Bld Tr 201	Drawing for Building Construction II
3	Bld Tr 104	Carpentry I (Residential Construction)
. 3	Bld Tr 105	Carpentry II (Residential Construction)
3	Bld Tr 108	Advanced Carpentry/Roof Framing I
3	Bld Tr 109	Advanced Carpentry/Stair Bld/Estimating II
4	Bld Tr 114	Carpentry/Project House Construction I
4	Bld Tr 115	Carpentry/Project House Construction II
4	Bld Tr 118	Carpentry/Project House Construction III
4	Bld Tr 119	Carpentry/Project House Construction IV
	,	

#### 32

TOTAL UNITS NEEDED FOR CERTIFICATE

#### Support/Additional Courses

U <u>nits</u>	Course Number	Course Title
3	Bld Tr 130	Blueprint Reading/Residential Construction
3	Bld Tr 134	Residential Construction Estimating
3	Bld Tr 138	Contractors License Law
4	Bld Tr 150	Cabinetmaking and Mill Work I
3	Bld Tr 160	Cabinetmaking and Mill Work II
3	I&T 270a-b	Residential Wiring
1-3	Bld Tr 190a-d	Supervised Practice

## **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 for Certificate:**

<u>Units</u>	Course Number	Course Title
2	Bld Tr 200	Drawing for Building Construction I
2	Bld Tr 201	Drawing for Building Construction II
3	Bld Tr 104	Carpentry I (Residential Construction)
3	Bld Tr 105	Carpentry II (Residential Construction)
4	Bld Tr 114	Carpentry/Project House Construction I
4	Bld Tr 115	Carpentry/Project House Construction II
4	bld Tr 150	Cabinetmaking and Millwork I
4	Bld Tr 151	Cabinetmaking and Millwork III
3	Bld Tr 160	Cabinetmaking and Millwork II
3	Bld Tr 161	Cabinetmaking and Millwork IV
4	Drafting 130	Introduction to Computer Assisted Cabinet

#### 36

#### TOTAL UNITS NEEDED FOR CERTIFICATE

**Support/Additional Courses:** The following courses may be substituted for required courses. Permission to substitute must be obtained from the program coordinator.

<u>Units</u>	Course Number	<u>Course Title</u>
3	Bld Tr 138	Contractors License Law
3	Bld Tr 162	Basic Cabinetmaking
3	bld Tr 130	Blueprint Reading/Residential Construction
1-3	Bld Tr 190a-d	Supervised Practice
3	I&T 270a-b	Residential Wiring

## **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 twelve units required by the State of California for private day care centers and the twenty-four units required by the state for a children's center permit, as well as degree, transfer and certificate classes.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
2	Child Dev 134	Child Abuse
3	Child Dev 39	Child Development
3	Child Dev 140	Principles in Early Childhood Education
3	Chld Dev 141	Practice in Early Childhood Education
3	Chld Dev 42	Child, Family and Society
3	Chld Dev 148	Child Health and Safety
7		Required Support/Additional Courses (See Below)

## 24 TOTAL UNITS NEEDED FOR CERTIFICATE

#### Support/Additional Courses (Choose 7 Units)

<u>Units</u>	Course Number	Course Title
3	Nutr/Food 112	Child Nutrition
1	Chld Dev 135	Music Experiences in ECE
1	Chld Dev 136	Children's Literature
1	Chld Dev 137	Science Experience in ECE
2-2	Chld Dev 149 &/or 150	Creative Activities for Children
3	Chld Dev 143	Administration of Early Childhood Education
3	Chld Dev 144	Adv Admin of Early Childhood Education
3	Chld Dev 145	Parenting
3	Child Dev 146	Exceptional Child
3	Chld Dev 147	Infant/Toddler-Child Care
1-3	Chld Dev 190a-d	Supervised Practice
1-1	Chld Dev 156 &/or 157	Family Day Care Mgmt/Principles
1-1-1-1	Chld Dev 199	Topics in Child Development

## Child Development, Special Education Option

## **Consumer/Family Studies**

The number of children with special needs in preschools and elementary schools 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 for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Chld Dev 39	Child Development
3	Chld Dev 140	Principles in Early Childhood Education
3	Chld Dev 141	Practice in Early Childhood Education
3	Child Dev 42	Child, Family and Society
3	Chld Dev 146	Exceptional Chld
2	Hygiene 3	Standard First Aid
2	Chld Dev 193	Cooperative Work Experience
5		Required Support/Additional Courses (See Below)

24 TOTAL UNITS NEEDED FOR CERTIFICATE

#### Support/Additional Courses (Choose 5 Units)

<u>Units</u>	Course Number	<u>Course Title</u>
3	Chld Dev 145	Parenting
3	Chld Dev 148	Child Health and Safety
2		Any Other Child Development courses

## 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 for Certificate :**

21

<u>Units</u>	Course Number	<u>Course Title</u>
2	Fash 167	Applied Color Theory
2	Fash 168	Advanced Color Theory
3	Fash 175	Fashion Image
2	Fash 174a-b	Fashion Illustration
2	Fash 179	Fashion Analysis
1	Fash 260	Career Dressing
3	Speech 1	Fundamentals of Public Speaking
6		Required Support/Additional Courses (See Below)

## TOTAL UNITS NEEDED FOR CERTIFICATE

#### Support/Additional Courses (Choose 6 Units)

<u>Units</u>	Course Number	Course Title
3	Fashion 76	Textiles
3	Fash 117a-b	Makeup
3	Fash 178	Visual Merchandising and Promotion

## **Commercial Art**

## Industry and Technology

Commercial Art is a vital component of today's business. Artists that can create visually stimulating messages for Advertising, Education and Politics are very much in demand. Today's commercial artist not only creates with brush and pen, but also with video and computer graphics. We see these images all around us in newspapers, magazines, television and motion pictures and other areas where they are a vital part of commerce. Students in this program learn skills in illustration, lettering, layout and graphics.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Art 1	Art Appreciation
3	Art 6	Color and Design
3	Art 8	Drawing Fundamentals
3	Photo 1	Beginning Photography
2	Art 15	Printmaking
3	Art 104a-d	Lettering
3	Drafting 160	Graphic Design
3	Art 103	Art Illustrating
2	Art 11a-d	Sculpture
2	Ind St 151 or 251	Independent Study (Computer Illus)
12		Required Support/Additional Courses (See Below)

#### 39

#### TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 12 Units)

<u>Unițs</u>	Course Number	<u>Course Title</u>
3	Art 9	Drawing Composition
2-4	ART 10a-d	Figure Drawing
2-4	Art 12a-b	Watercolor
2	Art 13a-d	Studio Painting
2	Art 16	Advanced Printmaking
3	Art 104a-d	Lettering
2	Art 174a-b	Fashion Illustration

## **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 spread-sheets. 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 for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Computer 5	Introduction to Computer Info Systems
4	Or Computer 130	Micro Oper-Introduction to Personal Computers
3	Computer 6	BASIC Programming
3	Computer 131	Micro Oper-Beginning DOS
3	Business 182	Introduction to Business
3	Or Business 188	Human Relations in Business
3	Business 184	Business Communications
5	Acet 201	General Vocational Accounting
5	Or Acct 202	General Vocational Accounting
4	• Or Acct 1	Principles of Accounting
10		Required Support/Additional Courses (See Below)

**30** ·

## TOTAL UNITS NEEDED FOR CERTIFICATE

**Support/Additional Courses (Choose 10 Units).** Enrollment in Business 160 or Business 360 is recommended if the keyboard skill is not met.

<u>Units</u>	Course Number	<u>Course Title</u>
4	Computer 7	COBOL Programming
4	Computer 133	Micro Oper-Data Base Processing
2	Computer 132	Micro Oper - Advanced DOS
3	Computer 134	Micro Oper-Telecommunications
4	Computer 135	Micro Oper-Desktop Publishing for Business
3	Computer 136	Micro Oper -Word Processing with WordPerfect
3	Computer 137	Micro Oper-Word Processing with WordStar
3	Computer 138	Micro Oper-Spreadsheet Design for business
	_	(Quattro)
3	Computer 210	Computer Accounting

## **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 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 for Certificate:**

<u>Units</u>	Course Number	<u>Course Title</u>
3	Int Des 121 or 122	Interior Design
3	Nutr/Food 101	Foods
3	Nutr/Food 18	Nutrition
3	Fash 175	Fashion Image
3	Fash 160	Clothing Construction
3	Or Fash 161	Tailoring
3	CFS 186	Personal Management/Consumer Econ
3		Required Support/Additional Courses (See Below)

20 TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 3 Units)

<u>Units</u>	Course Number	Course Title
3	CFS 80	Lifespan Development
3	Chld Dev 39	Child Development

## Cosmetology

## **Special Programs**

Cosmetologists (beauticians) provide beauty services to their customers. A majority of time is spent shampooing, tinting, bleaching, cutting and styling hair. Cosmetologists may also give manicures and scalp and facial treatments, provide makeup analysis and shape eyebrows. Students receive much practical experience and also learn the theory of cosmetology, anatomy disorders and diseases of the skin, scalp and hair, physiology of skin and nails and chemical composition. After passing the state licensing exam, cosmetologists have career opportunities as beauticians, beauty shop owners and speciality fields such as electrologists and manicurists.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
12	Cosm 261	Beginning Cosmetology
12	Cosm 262	Intermediate Cosmetology
10	Cosm 263	Advanced Cosmetology
34	TOTAL UNITS NEEDED FOR CERTIFICATE	

Support/Additional Courses

None

## **Dairy Science**

## Agriculture

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 for Certificate**

Units	Course Number	Course Title
3	Dairy 101	Elements of Dairying
3	Dairy 102	Milk Production
3	Dairy 103	Commercial Dairy Herd Management
3	Dairy 104	Breeding and Selection
1	Dairy 107a-d	Practical Skills in Dairying
3	Dairy 108	Dairy Nutrition
3	Ag Mgt 105a-b	Computers in Agriculture
1-4	Ag 193-194	Work Experience
3	Ag 201	Agricultural Mathematics
11		Required Support/Additional Courses (See Below)

**33-37 TOTAL UNITS NEEDED FOR CERTIFICATE** 

## Support/Additional Courses (Choose 11 Units)

Units	Course Number	Course title
1	Dairy 105a-d	Dairy Cattle Judging & Selection
3	Dairy 106a-b	Introduction to Dairy Products Technology
2	Ag Mech 101	Introduction to Ag Mechanics
3	Ag Mech 103	Farm Power

**Dairy Science** 

## **Drafting Technology**

Industry and Technology Division

The certificate program is designed to prepare students to enter into a variety of drafting, design and related fields. The certificate in architectural drafting is described under the listing of "Architecture and Architectural Drafting.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Drafting 100	Applied Drawing
4	Drafting 101	Manufacturing Design Graphics
. 3	Drafting 102	Descriptive Geometry
4	Drafting 110	Intro to Computer Assisted Drafting
4	Drafting 111	Computer Assisted Drafting
3	Drafting 120	Intro to Computer Assisted Illustration
7		Required Support/Additional Courses (See Below)

## 28

## TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 7 units)

<u>Units</u>	Course Number	<u>Course Title</u>
3	Arch 20	Intro to Graphics & Perspective
3	Arch 21	Basic Graphics
3	Arch 120	Freehand Drawing
3-9	Arch 121a-c	Perspective Alternatives
3	Arch 131	Light Wood Frame Construction
3	Arch 161	Computer Assisted Arch Detailing
3-3	Art 8 and/or 9	Drawing fundamentals/Composition
3	Art 104a-d	Letter for Graphics
4	Drafting 121	Computer Assisted Illustration
4-4	Drafting 130 &/or 131	Intro/Adv Computer Assisted Cabinet
3-3	Drafting 160 &/or 161	Graphic Design &/or Graphic Design Application
1-3	Drafting 190a-d	Supervised Practice
2	Drafting 200	Beginning Mechanical Drawing
3-3	Drafting 201 &/or 202	Civil Engineering Drafting/Design
1-1-1	Drafting 291, 292, 293	Independent Study

## **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 and 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 for Certificate:**

<u>Units</u>	Course Number	<u>Course Title</u>
5	Elect 101	D.C. Circuits
5	Elect 102	A.C. Circuits
3	Elect 110	Digital Circuits
3	Elect 112	Microprocessor Applications
4	Elect 111	Microprocessors/PLC Fundamentals
3	Elect 121	Solid State Devices
3	Elect 122	Active Circuits

26 TOTAL UNITS NEEDED FOR CERTIFICATE

**Support/Additional Courses.** The following courses may be substituted for required courses. Permission to substitute must be obtained from the program coordinator.

<u>Units</u>	Course Number	Course Title
3	Elect 105	Industrial Fabrication and Design
3	Elect 107	Basic Video Circuits
3	Elect 108	Advanced Video Circuits
4	Elect 113	PC Troubleshooting/Repair
3	Elect 114	<b>Operational Amplifier Circuits</b>
3	Elect 123	Basic RF Circuits
3	Elect 124	RF Systems
3	I&T 270a-b	Residential Wiring
3	I&T 272	Electrical Wiring, Industrial
2	I&T 273	Electronic Motor Control
2	I&T 351*	Industry and Technology Math
1	Elect 190a-d	Supervised Practice

\*Does not apply toward degree.

## **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, and 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. This certificate does not require a student to take course work outside the Environmental Control Technology department.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
8	ECT 181	Basic Air Conditioning
12	ECT 182	Adv Air Cond/Refrig Commercial/Domestic
3	I&T 142	Air Conditioning Sheet Metal
3	I&T 143	Advanced Air Conditioning Sheet Metal
4	ECT 180	Electricity and Controls for HVAC

## **30 TOTAL UNITS NEEDED FOR CERTIFICATE**

**Support/Additional Courses.** The following courses may be substituted for required courses. Permission to substitute must be obtained from the program coordinator.

Units	Course Number	Course Title
1-3	ECT 190a-d	Supervised Practice
2	ECT 260	Basic Air Conditioning & Refrigeration
2	ECT 261	Advanced Air Cond & Refrig/Com & Dom
2	ECT 262	Heating Systems & Controls
2	ECT 263	Commercial Refrigeration
3	ECT 200	Intro to Indust Ammonia Refrigeration
2	Drafting 200	Beginning Mechanical Drawing
3	Auto 109	Air Conditioning/Accessories
3	Acct 287	Accounting for Service Businesses
3	Business 297	Personal Finance
4	Welding 161	Oxy-Acetylene

## **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 for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Fash 76	Textiles
3	Fash 175	Fashion Image
3	Fash 162	Creative Pattern Design
3	Fash 163	Advanced Pattern Design
2-2	Fash 174a-b	Fashion Illustration
3	Fash 177	Introduction to Fashion Merchandising
3	Speech 1	Fundamentals of Public Speaking
3	Fash 160a-b	Clothing Construction
3		Required Support/Additional Courses (See below)

28

TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 3 Units)

<u>Units</u>	Course Number		<u>Course Title</u>	
3	Fash 161a-b		Tailoring	
3	Fash 112a-b		Costuming	

## **Fashion Merchandising**

## **Consumer/Family Studies**

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 for Certificate:**

<u>Units</u>	Course number	Course Title
3	Fash 76	Textiles
2	Fash 167	Applied Color Theory
3	Fash 175	Fashion Image
2	Fash 174a-b	Fashion Illustration
3	Fash 177	Intro to Fashion Merchandising
3	Fash 178	Visual Merchandising and Promotion
2	Fash 179	Fashion Analysis
1	Fash 260	Career Dressing
4	Computer 130	Micro Oper-Intro to Personal Computers
2-4	CFS 193	Work Experience

25-27

TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses

None

## **Fire Technology**

## **Special Programs**

The Fire Technology 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 of 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 for Certificate**

<u>Units</u>	Course Number	<u>Course Title</u>
9	Fire Tec 170	Basic Firefighter 1 - Academy
12		Required Support/Additional Courses (See Below)

## Support/Additional Courses (Choose 12 Units)

<u>Units</u>	Course Number	Course Title
3	Fire Tec 152	S.F.M. Fire Investigation
3	Fire Tec 154	Fundamentals of Fire Service Operations
3	Fie Tec 155	Fundamentals of Fire Protection Chemistry
3	Fire Tec 156	Fire Service Hydraulics
3	Fire Tec 157	Fundamentals of Fire Prevention
3	Fire Tec 159	Introduction to Fire Technology
2	Fire Tec 161	S.F.M. Fire Prevention 1A
2	Fire Tec 162	S.F.M. Fire Prevention 1B
3	Fire Tec 163	Fire Protection Systems and Equipment
2	Fire Tec 171	S.F.M. Fire Instructor 1A
2	Fire Tec 172	S.F.M. Fire Instructor 1B
2	Fire Tec 173	Fire Command 1A
2	Fire Tec 174	Fire Command 1B
2	Fire Tec 177	Fire Management 1
4	Fire Tec 240	S.F.M. Non-Ambulance EMT

113

**Fire Technology** 

## **Floral Technology**

## **Agriculure 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 for Certificate:**

<u>Units</u>	Course Number	<u>Course Title</u>
3	OH 111	Floral Design
3	OH 112	Sympathy Floral Designs
3	OH 113	Wedding Floral Designs
3	OH 119	Interiorscape
3	OH 101	Basic Ornamental Horticulture Skills
3	Ag 201	Agricultural Math
3	Ag Mgt 105a-b	Computers in Agriculture
1-4	Ag 193-194	Work Experience
9		Required Support/Additional Courses (See Below)

## **31-34 TOTAL UNITS NEEDED FOR CERTIFICATE**

## Support/additional Courses (Choose 9 Units)

<u>Units</u>	Course Number	<u>Course Title</u>
3 3 3	OH 104 OH 105 OH 7	Nursery Practice Plant Propagation
3 3	OH 108 Art 1	Landscape Design Landscape Construction Art Appreciation
3 3	Business 170 Business 171	Retail Store Salesmanship Applied Professional Salesmanship

## **Food Service**

## **Consumer/Family Studies**

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 percent over the next ten 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 for Certificate:**

<u>Units</u>	Course Number	Course Title
1.	Nutr/Food 107	Sanitation and Safety
3	Nutr/Food 105	Commercial Food I
3	Nutr/Food 106	Commercial Food II
3	Nutr/Food 18	Nutrition
3	Nutr/Food 193	Work Experience
3	Business 188	Human Relations in Business
4		Required Support/Additional Courses (See Below)
,		·

20 TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 4 Units)

<u>Units</u>	Course Number	<u>Course Title</u>
4	Computer 130	Micro Oper-Introduction to Personal Computers
3	Acct 287	Accounting for Service Businesses
3	Business 395*	Review of Arithmetic for Businesses
3	Business 295	Business Mathematics

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Does Not apply toward degree.

**Food Service** 

## **General Business/Clerical**

## **Busness Division**

Figures show that 65 percent 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 and 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 for Certificate:**

<u>Units</u>	Course Number	<u>Course Title</u>
3	Business 160	Beginning Keyboarding
3	Or Business 161	Intermediate Keyboarding
3	Or Business 162	Advanced Keyboarding
5	Acct 201	General Vocational Accounting
3	Or Acct 287	Accounting for Service Businesses
3	Business 182	Introduction to Business
3	Or Business 188	Human Relations in Business
3	Or Business 274	Marketing Principles
3	Or Business 170	Retail Store Salesmanship
4	Business 18	Business Law
4	Computer 130	Micro Oper - Intro to Personal Computers
3	Computer 131	Micro Oper - Beginning DOS
3	Business 184	Business Communications
2	Business 259	Records Management
2	Business 268	Electronic Calculating
3	Business 295	Business Mathematics

30-32

#### TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses

None. Enrollment in Business 160 or Business 360 is recommended if the keyboarding skill requirement is not met.

## **Horse Production**

## **Agriculure 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. Student will study and learn about career and employment opportunities in the equine industry.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
2/2	An Sci 120a-d	Basic Equitation (Requires 2 semesters)
2	An Sci 124a-d	Colt Breaking
3	An Sci 22	Horse Husbandry
3	Ag Mgt 105a-b	Computers in Agriculture (1st semester)
1-4	Ag 193-194-195-196	Work Experience
3	An Sci 1	Introduction to Animal Science
3	An Sci 103	Animal Nutrition
3	An Sci 123	Horse Production
. 3	An Sci 104	Animal Diseases and Sanitation
6		<b>Required Support/Additional Courses</b>
		(See Below)

31-34

TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 6 Units)

<u>Units</u>	Course Number	Course Title
3	Ag Mgt 104	Farm Accounting
3	Ag Mgt 105a-b	Computers in Agriculture (2nd semester)
3	Ag Mech 103	Farm Power
2	Ag Mech 102a-d	Farm Equipment Construction
3	Ag 4	Soils
3	Ag Mgt 102	Ag Sales and Marketing
<b>3</b> ·	Ag 201	Agricultural Mathematics

# **Horse Production**

## Human Service (Social Work)

## **Social Science Division**

Community needs of today require 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 of 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 for Certificate:**

1-4

<u>Units</u>	Course Number	Course Title
3	Hum Serv 120	Intro to Social Welfare
4	Hum Serv 121	Interviewing
3	Hum Serv 122	Intro to Human Services
2-2-2	Hum Serv 193-194-195	Work Experience/Internship
2	Hum Serv 228	Alcohol Interview Treatment & Recovery
2	Hum Serv 2219	Physical & Psychological Aspects of Drug Abuse
3	Psych 1	General Psychology
3	Psych 10	Human Sexuality
3	Sociology 126	Marriage & Family Life
3	CFS 186	Personal Management/Consumer Economics
3	Or business 297	Personal Finance
3	Computer 5	Introduction to Computer Information Systems
or		

## **35 TOTAL UNITS NEEDED FOR CERTIFICATE**

<u>Units</u> <u>Course number</u> <u>Course Inte</u>	<u>Units</u>	Course Number	Course Title
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Hum Serv 196 Work Experience/Internship

## **Information Services/Word Processing**

## **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 for Certificate:**

<u>Units</u>	Course Number	Course Title
4	Computer 130	Micro Oper-Introduction to Personal Computers
3	Or Computer 5	Introduction to Computer Information Systems
3	Computer 131	Micro Oper - Beginning DOS
3	Computer 134	Micro Oper - Telecommunications
4	Computer 135	Micro Oper - Desktop Publishing for Business
3	Computer 136	Micro Oper - Word Processing with WordPerfect
3	Computer 137	Micro Oper - Word Processing with WordStar
3	Business 161	Intermediate Keyboarding
3	Or Business 162	Advanced Keyboarding
3	Business 184	Business Communications
3	Or Business 293	Business English
8		Required Support/Additional Courses (See Below)

## 33-34 TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/additional Courses (choose 8 Units)

<u>Units</u>	Course Number	Course Title
3	Business 258	Office Procedures
3	Business 266	Professional Employment Preparation
2	Business 269	Machine Transcription
2	Computer 132	Micro Oper - Advanced DOS
3	Business 182	Introduction to Business
3	Business 188	Human Relations in Business
1	Business 260	Career Dressing
2	Business 268	Electronic Calculating

## **Interior Design**

## **Consumer/Family Studies**

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 for Certificate:**

Units	Course Number	Course Title
3	Int Des 121	Material/Interior Design
3	Int Des 122	Housing/Interior Design
3	Fash 76	Textiles
3	Fash 178	Visual Merchandising & Promotion
2	Bld Tr 200	Drawing for Building Construction I
2	Bld Tr 201	Drawing for Building Construction II
4	Draft 110	Introduction to Computer Assisted Drafting
3	Arch 10	Architectural/Environmental Design
3	Arch 11	Environmental Design Fundamentals
3	Arch 120	Freehand Drawing
3	Arch 121a-c	Perspective Alternatives
3	CFS 193	Work Experience

35

TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses

None

## Landscape Technology

## **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 creates their own 10x20 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 manger.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
3	OH 2	Plant Identification I
3	OH 3	Plant Identification II
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
2	Ag Mech 109	Small Engines and Equipment
1-4	Ag 193	Work Experience
6		Required Support/Additional Courses (See Below)

#### 30-33

TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 6 Units)

<u>Units</u>	Course Number	<u>Course Title</u>
3	OH 101	Basic Ornamental Horticulture Skills
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	Interiorscapes

Law Enforcement

## **Special Programs**

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 student with the skills and knowledge to enter this highly rewarding field. The Law Enforcement Training program 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 for Certificate:**

Units	Course Number	Course Title
12	AJ 200	Basic Police Academy
		Prerequisite: High school graduate, no felony
		convictions, passing score on P.O.S.T. reading and writing test)
0-12	AJ 299	Topics-Advanced Officer Training
		Prerequisite: AJ 200
2	AJ 203	Traffic Collision Investigation
		Prerequisite: AJ 200
5	AJ 204	Supervisory Techniques
		Prerequisite: AJ 200
2	AJ 208	PC 832, Laws of Arrest/Non Firearms
		Prerequisite: None

## 21-33 TOTAL UNITS NEEDED FOR CERTIFICATE

## Supported/Additional Courses

None

## Maintenance Technician, Level 1

## **Industry and Technology**

Level 1 Maintenance Technician is a one-year (two semester) 25 hours per week training program to provide students with job entry skills. The two degree applicable twelve unit classes will provide students with over 850 hours of skill training in the areas of electricity, electronics, welding, machining, refrigeration, hydraulics, pneumatics, and other maintenance areas.

## **Required Courses for Certificate:**

First S	emester
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<u>Units</u>	Course Number	Course Title
<b>`12</b>	I&T 100a-b (a)	Maintenance Technician, Level 1

## Second Semester

<u>Units</u>	Course Number	Course Title
12	I&T 100 a-b (b)	Maintenance Technican, Level l

## 24 TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses

None

## Maintenance Technician, Level 2

## **Industry and Technology**

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 person 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 for Certificate:**

Units	Course Number	Course Title
3	I&T 110	Basic Machining
3	I&T 111	Machining/Manufacture Process
3	I&T 142	Air Conditioning Sheet Metal
3	I&T 270a-b	Residential Wiring
3	I&T 272	Electrical Wiring Industrial
2	I&T 273	Electric Motor Controls
2	I&T 274	Electric Motor Control/Prog Control
2	I&T 275	Solid State fundamentals for Electricians
1.5	1&T 303*	Home Maintenance
2	I&T 351*	Industry and Technology Math
4	Weld 161	Oxy-Acetylene Welding
4	Weld 162	Shielded Metal Arc Welding

## 32.5 TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses

Units	Course Number	Course Title
3	Bld Tr 130	Blueprint Reading/Residential Construction
3	Draft 100	Applied Drawing
4	ECT 180	Electricity & Controls for HVAC
1.5	I&T 130	Hazardous Materials Awareness and Safety
3	I&T 143	Adv Air Conditioning Duct Sheet Metal
1-3	I&T 190a-d	Supervised Practice
3	I&T 220	Water Treatment Fundamentals
3	I&T 221	Waste Water Treatment Fundamentals

\* Does not apply toward degree

## Marketing

## **Business**

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 for Certificate:**

<u>Units</u>	Course Number	<u>Course Title</u>
3	Business 170	Retail Store Salesmanship
3	Business 274	Marketing Principles
3	Business 171	Applied Professional Salesmanship
3	Or Business 182	Introduction to Business
3	Or Business 188	Human Relations in Business
3	Acct 287	Accounting for Service Businesses
5	Or Acct 201	General Vocational Accounting
4	Business 18	Business Law
4	Computer 130	Micro Oper - Introduction to Personal Computers
3	Computer 131	Micro Oper - Beginning DOS
3	Business 194	Business Communications
2	Business 268	Electronic Calculating

**28-30 TOTAL UNITS NEEDED FOR CERTIFICATE** 

## Support/Additional Courses

None

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

Marketing

## **Consumer/Family Studies**

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 for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Fash 117a-b	Makeup
3	Fash 170	Modeling
3	Fash 175	Fashion Image
3	Fash 177	Introduction to Fashion Merchandising
2	Fash 167	Applied Color Theory
1	Fash 160	Career Dressing
3	Speech 1	Fundamentals of Public Speaking
3-4	· •	Required Support/Additional Courses (See Below)

## 21-22 TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 3-4 Units)

<u>Units</u>	Course Number	Course Title
3	Nutr/Foods 18	Nutrition
2	Or Nutr/Foods 119	Nutrition for Fitness

## **AND** one of the following:

1	PE 1 a-d	Aerobic Conditioning
1	Dance 8 a-d	Beginning Ballet
1	Dance 10a-d	Modern Dance

Modeling

## **Nursery Technology**

## **Agriculture** Division

Nursery Technology is an ideal field for people with a "green-thumb." Students work in a 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 for Certificate:**

<u>Units</u>	Course Number	Course Title
3	OH 101	Basic Ornamental 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 109	Landscape Maintenance
3	OH 110	Turfgrass Management
3	OH 106	Landscape Drafting
9	н М	Required Support/Additional Courses (See below)

33

TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 9 Units)

<u>Units</u>	Course Number	Course Title
3	Ag 3	Economic Entomology
3	Ag 4	Soils
3	Ag 105	Fertilizers
3	OH 111	Floral Design
3	OH 117	Sprinkler Irrigation
3	OH 118	Xeriscape
1-4	Ag 193	Work Experience
3	OH 119	Interiorscapes
3	OH 7	Landscape Design

**Nursery Technology** 

## **Nutrition Aide**

## **Consumer/Family Studies**

The importance of proper nutrition is becoming more apparent as the American public becomes more health conscious. The Nutrition Aid 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 dietician or dietetic assistant, in a nutritional care department of a hospital, rest home or other facilities that need a person with foods and nutritional training.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
3	Nutr/Food 101	Foods
1	Nutr/Food 107	Sanitation and Safety
3	Nutr/Food 18	Nutrition
2-4	CFS 193	Work Experience
2-3		Required Support/Additional Courses (See Below)

## 11-14 TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 2-3 Units)

<u>Units</u>	Course Number	Course Title
3	Nutr/Food 112	Children's Nutrition
2	Nutr/Food 119	Nutrition for Fitness

## **Ornamental Horticulture Technology**

## Agriculture

Ornamental 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 elated 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 for Certificates:**

<u>Units</u>	Course Number	Course Title
3	OH 101	Basic Ornamental Horticulture Skills
3	OH 2	Plant Identification I
3	Or OH 3	Plant Identification II
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 7	Landscape Design
1-4	AG 193-194-195-196	Work Experience
3		Required Support/Additional Courses (See Below)

## 31-34

### TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 3 Units)

<u>Units</u>	Course Number	Course Title
3	Ag 3	Economic Entomology
3	Ag 4	Soils
3	Ag 105	Fertilizers
3	OH 118	Xeriscape
3	OH 111	Floral Design
3	OH 117	Sprinkler Irrigation
3	OH 119	Interiorscapes

## **Plant Science and Industry**

Agriculture Department

One of the greatest challenges to 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 for Certificate:**

<u>Units</u>	Course Number	<u>Course Title</u>
3	Plant Sci 1	Introduction to Plant Science
3	Plnt Sci 105	Weeds and Weed Control
3	Ag Mech 108	Irrigation
3	Ag 105	Fertilizers
3	Ag 3	Economic Entomology
3	Ag 4	Soils
3	Ag Mech 104	Farm Machinery
3	Ag Mgt 104	Farm Accounting
1-4	Ag 193-194-195-196	Work Experience
6	- 	Required Support/Additional Courses (See Below)

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TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 6 Units)

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Units	<u>Course Number</u>	Course 11tle
3	An Sci 1	Introduction to Animal Science
3	Ag Mgt 105a-b	Computers in Agriculture
3	Ag 201	Agricultural Mathematics
3	Plnt Sci 102	Row Crops
3	Plnt Sci 104	Forage Crops
3	Plnt Sci 103	Cereal & Oil Crops
3	Plnt Sci 12	Fruit & Nut Tree Production
3	Plnt Sci 113	Grape & Vine Production
3	Plnt Sci 111	Citrus Production
3	OH 105	Plant Propagation

## **P.O.S.T. Basic Police Academy**

## **Special Programs**

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 firearms, driver's training, CPR, intoxilizer, officer survival, community relations, and criminal law.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	<u>Course Tit</u>	<u>le</u>

12 AJ 200 Basic Police Academy

All applicants must be in good physical health, certified by a medical doctor to participate in a strenuous physical activity program, high school diploma or GED, over 18 years of age and no felony criminal record. A material fee is changed in addition to normal college fees. Interested persons should contact the law enforcement training department (209) 730-3862 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 no charge by the State of California Commission on Peace Officer Standards and Training.

## Police Reserve, PC 832

## Special Programs

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 for Certificate:**

<u>Units</u>	Course Number	<u>- Course Title</u>
1.5	AJ 209	Agency Firearms (PC 832) <b>Prerequisite:</b> None
3	AJ 210	Level III, Law of Arrest and Firearms (Course length: 80 hours. This course also satisfies requirements of PC 832).
2	AJ 211	Level II, CPR, First Aid and Role of the Backup Officer, Weaponless Defense, Shotgun (Course length: 128 hours) <b>Prerequisite: AJ 210</b>
7.5	AJ 212	Level I With a total of 136 hours of training . (This course meets state training requirements for "work alone" (Level I) Reserve Peace Officers. <b>Prerequisite: AJ 211</b>

## 14

## TOTAL UNITS NEEDED FOR CERTIFICATE

## **Real Estate**

## **Business**

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 for Certificate:**

Units	Course Number	Course Title
3	Real Estate 140	Real Estate Principles
3	Real Estate 141	Real Estate Finance
3	Real Estate 142	Real Estate Law
· · <b>3</b>	Real Estate 143	Real Estate Economics
3	Real Estate 145	Real Estate Appraisal
<b>4</b>	Computer 130	Micro Oper-Introduction to Personal Computers
9	<sup>-</sup>	Required Support/Additional Courses (See Below)

#### 28

1

TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses (Choose 9 Units)

Units	Course Number	Course Title
4	Business 18	Business Law
3	Computer 131	Micro Oper-Beginning DOS
5	Acct 201	General Vocational Accounting
4	Or Acct 1	Principles of Accounting
3	Speech 1	Fundamentals of Public Speaking

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**Real Estate** 

## **Business**

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 with the company. Related fields include legal secretary, medical secretary and office manager.

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	Course Title
5	Business 150	Elementary Shorthand
5	Business 152	Advanced Shorthand
3	Business 160	Beginning Keyboarding
3	Or Business 161	Intermediate Keyboarding
3	Or Business 162	Advanced Keyboarding
3	Computer 136	Micro Oper-Word Processing with WordPefect
3	Or Computer 137	Micro Oper - Word Processing with WordStar
3	Business 182	Introduction to Business
3	Or Business 188	Human Relations in Business
4	Computer 130	Micro Oper-Introduction to Personal Computers
3	Computer 131	Micro Oper-Beginning DOS
3	Business 184	Business Communications

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TOTAL UNITS NEEDED FOR CERTIFICATE

## Support/Additional Courses

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

<u>Units</u>	<u>Course Number</u>	<u>Course Title</u>
3	Business 258	Office Procedures
3	Business 293	Business English
2	Computer 132	Micro Oper-Advanced DOS
4	Computer 135	Micro Oper-Desktop Publishing for Business
3	Business 266	Professional Employment Preparation
1	Business 260	Career Dressing

## **Security Guard Training**

## **Special Programs**

Security Guard Training program offers courses meeting state requirements for the certification of private security offices in such areas as firearms, 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 for Certificate:**

Units	<b>Course Number</b>	Course Title
1	AJ 220a-d	Basic Security Firearms (16 hours)
1	AJ 221	Security Side Handle Baton (12 hours)

## **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.

## Welding

## Industry and Technology

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

## **Required Courses for Certificate:**

<u>Units</u>	Course Number	<u>Course Title</u>
4	Welding 161	Oxy-Acetylene Welding
4	Welding 162	Shielded Metal Arc Welding
4	Welding 171	Advanced Welding I
4	Welding 172	Advanced Welding II
3	Welding 181	Blueprint Reading and Ferrous Metallurgy

## **19 TOTAL UNITS NEEDED FOR CERTIFICATE**

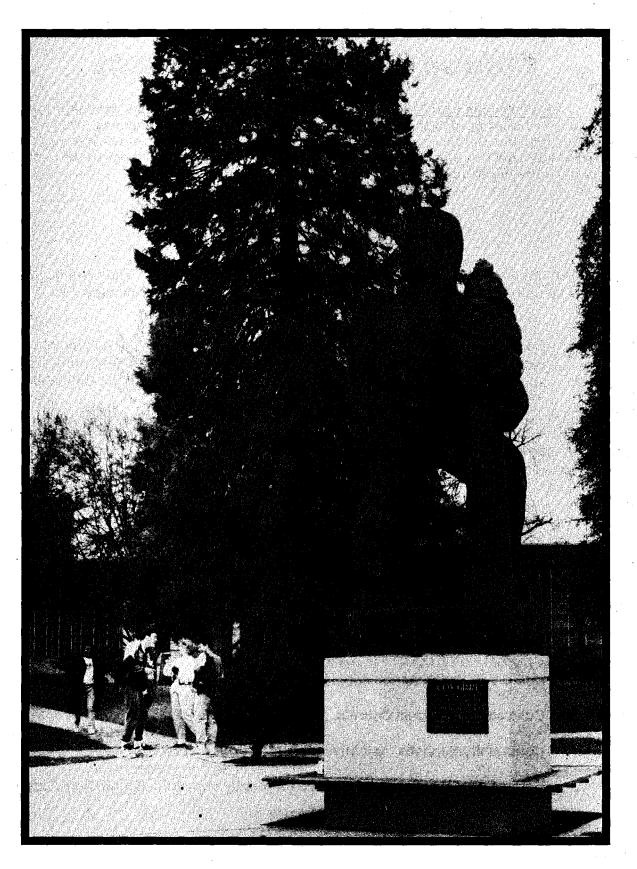
## Support/Additional Courses

<u>Units</u>	Course Number	Course Title
3	Drafting 100	Applied Drawing
4	Drafting 110	Introduction to Computer Assisted Drafting
3	Chemistry 353*	Survey of Introductory Chemistry
2	I&T 351*	Industry and Technology Math

\* Does not apply toward degree



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# **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	Courses accepted by the University of California system. For a complete list, including all unit limitations, see University of California Transfer Course list. For specific course to course articulation (equivalency), consult the Counseling Office.
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.
200-299	Associate degree applicable. Occasionally these courses are acceptable for transfer credit by four-year institutions. (The determination of acceptance of these courses will be made by the receiving institution.)
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)

## ACCOUNTING

#### **PRINCIPLES OF ACCOUNTING 4 UNITS** ACCT 1 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. CAN BUS 2 Recommended Prerequisite: Sophomore standing (at least 30 college units completed).

#### **PRINCIPLES OF ACCOUNTING 4 UNITS** ACCT 2 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. CAN BUS 4

Recommended Prerequisites: Satisfactory completion of ACCT

### ACCT 201 GENERAL VOCATIONAL ACCOUNTING

#### Hours: **5 Lecture/Discussion**

Accounting 201 is a vocational course in accounting principles and practices; covering the effect of transactions, adjustments, closing and revising entries on the asset, liability 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.

### ACCT 202 GENERAL VOCATIONAL ACCOUNTING

#### Hours: 5 Lecture/Discussion

## **5 UNITS**

**5 UNITS** 

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 AOB.

Recommended Prerequisites: ACCT 201 or ACCT 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 210 MICROCOMPUTER OPERATIONS: COMPUTER ACCOUNTING

**3 UNITS** 

**5 UNITS** 

Hours: **3 Lecture** 

This course will teach students to use computer-based accounting packages to handle the accounting procedures for a business. These packages are usually referred to as "General Ledger Accounting" packages. This course is an Introduction to accounting applications software for accountants and business managers. Students will use standard accounting programs, including general ledger, accounts receivable/payable, payroll and inventory control. Students will survey current accounting applications for microcomputers. Recommended Prerequisites: 1) Accounting 201 and/or Accounting 1; 2) Satisfactory completion of a microcomputer class.

#### ACCT 282 INDIVIDUAL INCOME TAX 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 Callfornia 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.

#### ACCT 287 ACCOUNTING FOR SERVICE BUSINESSES Hours:

## **3 UNITS**

## 3 Lecture/Discussion

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 payroll registers, computing the employers payroll 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 Hours: 3 Lecture/Discussion

**3 UNITS** 

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)

## ADMINISTRATION OF JUSTICE

#### 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 Hours: 3 Lecture/Discussion

An in-depth exploration of the roles of 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.

## 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 seizure; 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.

## ADMINISTRATION OF JUSTICE

**3 UNITS** 

#### AJ 113 JUVENILE LAWS AND 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 disposition, juvenile status, state and federal court procedures are examined. Formerly CJ 30.

## AJ 114JUVENILE DELINQUENCY3 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, (biological, 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 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 121 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: Adm Jus 11.

Recommended Prerequisite: Elgibility for English 1.

## ADMINISTRATION OF JUSTICE

#### **CRIMINAL INVESTIGATION** AJ 118 Hours: 3 Lecture/Discussion

**3 UNITS** 

**3 UNITS** 

1-4 UNITS

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 operand 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** Hours: 3 Lecture/Discussion

An In-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.

#### **INTRODUCTION - CORRECTIONS** AJ 121 **3 UNITS** 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: AJ 11.

#### AJ 193-COOPERATIVE/WORK EXPERIENCE 196

Hours: Arranged You are a participant in the College of the Sequolas Cooperative/Work Experience class. This class is designed to bring the academics of the classroom together with practical experiences of the job to enhance your academic and career growth. Your assigned employer will become a partner with the College to develop a plan of expanded learning which takes place on your job site. Your internship is coordinated by the classroom Instructor, you must contact him for information on the requirements pertaining to course activities.

## **ADMINISTRATION OF JUSTICE**

#### **BASIC POLICE ACADEMY** AJ 200 Hours: 26 Lecture/Discussion 22 Activity

**12 UNITS** 

**5 UNITS** 

## 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. Prerequisite: 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	1
	INVESTIGATION	÷ 1			
Hours:	36 Lecture/Discussion				
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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 Hours: 40 Lecture/Discussion 40 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.

#### AJ 209 PC 832/FIREARMS 1.5 UNITS 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 other diverse peace officer classifications whose jobs require the carrying of a side arm. Recommended Prerequisite: AJ 208 or equivalent.

## ADMINISTRATION OF JUSTICE

AJ 210 LEVEL 3, 3 UNITS RESERVE POLICE OFFICER TRAINING Hours: 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 Penal 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 Hours: 8 Lecture/Discussion 16 Lab Designed to satisfy the curriculum standards of the Commission

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-Along) Reserve Peace Officer. Formerly CJ 86C.

Recommended Prerequisites: Completion of Adm Jus 210.

AJ 212	LEVEL 1, RESERVE	3 UNITS
	PEACE OFFICER TRAINING	
Hours:	8 Lecture/Discussion	
	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, law, evidence, patrol procedures, traffic, and criminal investigations. Upon completion of this course, the student will qualify as a Level 1 (work alone) reserve peace officer. Formerly CJ 86D.

Recommended Prerequisites: Completion of AJ 210 and 211.

AJ 299 a-d	TOPICSADVANCED PEACE	0-12
	OFFICER TRAINING	UNITS
Hours:	Variabie	

An In-service training course for peace officers below management level. This course complies with regulations prescribed by the California Commission on Peace Officer Standards and Training (P.O.S.T.). The subject content is designed to meet current training needs in the area and will change with time. Formerly CJ 85a-d.

**Recommended Prerequisites:** Completion of AJ 200 (Basic Training Academy) or equivalent.

## ADMINISTRATION OF JUSTICE

## AJ 313 ADMINISTRATION OF JUSTICE 3 UNITS OFFICER TRAINING

Hours: 63 Lecture 91 Lab

This course provides an opportunity for students to develop the requisite knowledge and skills for passing the prerequisite examination for the Basic Training Academy. Topics include study skills, reading and writing skills, cultural awareness law enforcement professional values, and Police Academy orientation.

**Recommended Prerequisites:** Completion of English 382, an equivalent course, or possession of Intermediate English language skills as indicated by an instructor evaluated writing sample.

### AJ 320a-d BASIC FIREARMS Hours: 12 Lecture/Discussion 4 Lab

Specialized training for private and industrial security as well as for persons seeking skills with personal firearms. This course is designed to meet specific requirements of the 16 hour California Bureau of Consumer Affairs and Commission on Peace Officer Standards and Training. Topics include: Legal and moral aspects of firearms use, sidearm familiarization and safety, and shooting fundamentals. Formerly CJ 71a-d.

### AJ 321 SIDE HANDLE BATON Hours: 8 Lecture/Discussion 4 Lab

.5 UNIT

**1 UNIT** 

Specialized training for security guards, peace officers and other interested persons. This course is designed to meet specific requirements of the California Bureau of Consumer Affairs and the Commission on Peace Officer Standards and , Training (P.O.S.T.). Formerly CJ 72a-d.

## AGRICULTURE

AG 3 ECONOMIC ENTOMOLOGY Hours: 3 Lecture/Discussion 1 Lab **3 UNITS** 

Ageneral study of western insects, their life cycles, classification, and identification, methods of control, and economic importance in California.

AG 4	SOILS	3 UNITS
Hours:	3 Lecture/Discussion	
	1 Lab	

## Materiais Fee: \$10.00

This course covers the biological, chemical, physical and genetic soll properties, interpretation of soils information for agricultural management and production. It also includes proper land use and conservation, as well as, soil and water management..

## AGRICULTURE

AG 105 FERTILIZERS 3 Lecture/Discussion Hours: 1 Lab

**3 UNITS** 

A broad study of fertilizers and soll amendments is done regarding their chemical and physical properties, methods of application, value in plant nutrition, Interaction with soils and plants and visual recognition of typical plant nutrient deficiencies. Formerly AG 5.

Recommended Prerequisites: AG 4,

#### AG 125 **PRINCIPLES OF PESTICIDE USE 3 UNITS** 3 Lecture/Discussion Hours:

A study of the fundamentals, basic concepts and principles of pesticide use, handling and application with emphasis on plant pests, pesticide made of action and pest control methods, pesticide label interpretation, and worker safety. This course is designed for those preparing for agricultural pest control licensing or who require continuing education. Formerly AG 80a-c.

AG 201	AGRICULTURAL MATHEMATICS	3 UNITS
Hours:	3 Lecture/Discussion	

Practical problem-solving in solls, crops, dairy, horticulture, livestock, poultry, and feeds; discounts and interest percentages, linear measurements, area, volume, metric measures, and their application in today's agriculture. Formerly AG 1.

#### AG 299a-d SPECIAL TOPICS IN AGRICULTURE **1 UNIT 36 Activity** Hours:

The course is designed for a student to do individualized research in an agriculture topic area. A student must spend a minimum of thirty-six hours doing in-depth study of a topic with prior approval of the instructor. A hypothesis will be established, an outline discussed with the instructor and term paper will be completed after the research has been conducted. The course is designed to give students an opportunity to investigate preconceived ideas about agriculture subjects and then do research to prove or disprove their theories. Formerly AG 100a-d.

AG 300	INTRODUCTION TO THE AGRICULTURAL INDUSTRY	3 UNITS
Hours:	3 Lecture/Discussion	
	1 Lab/Demonstration	

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

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

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

**1 UNIT** 

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	÷	
	llab		

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.



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

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.

AG MGT	AGRICULTURE
102	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. Markeing 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	<b>3 UNITS</b>
103	TO AGRICULTURE MANAGEMENT	

Hours: **3 Lecture/Discussion** 

1 lab 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 decisionmaking will be discussed. The basic steps involved in organizational design will be covered. Formerly AG MGT 3.

**3 UNITS** 

### AGRICULTURAL MANAGEMENT

**3 UNITS** 

AG MGT

104

Hours: **3 Lecture/Discussion** 

FARM ACCOUNTING

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 MGI	INTRODUCTION	3 UNITS
105a-b	TO AGRICULTURE COMPUTERS	

#### Hours: 3 Lecture/Discussion 1 Lab

Materials Fee: \$10.00

An Introduction to the basic concepts of computers as they relate to aariculture. The course is designed to give students a basic understanding of computer principles using software programs such as SuperCaic 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. Formerly AG MGT 5a-b.

### AGRICULTURAL MECHANICS

AG MECH BASIC FARM MECHANICS **3 UNITS** 101 Hours:

3 Lecture/Discussion 1 Lab

### 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.

### AGRICULTURAL MECHANICS

### AG MECH FARM POWER 103 Hours:

3 Lecture/Discussion 1 Lab

### Materials Fee: \$5.00

A study in the basic principles of the modern farm tractor Including operation, service, repairs, and maintenance. Lectures, demonstrations and lab work will include theory and practical operation of all systems of dlesel and gasoline powered tractors. Formerly AG MECH 3.

#### **3 UNITS** AG MECH FARM MACHINERY 104

Hours: **3 Lecture/Discussion** 11<sub>ab</sub>

### Materials Fee: \$5.00

A study in the basic principles of the modern farm equipment Including the operation, service, repairs, and maintenance. Lectures, demonstrations, and lab work will include theory and practical operation of many different pieces of farm equipment. The following types of farm equipment will be studied: spray rigs, discs, plows, planters, cultivators, swathers, balers, and many others. Formerly AG MECH 4.

#### AG MECH FARM STRUCTURE 105a-b Hours: **3 Lecture/Discussion**

**3 UNITS** 

2 UNITS

**3 UNITS** 

### 1 lab

### Materials Fee: \$5.00

Farm Structures Is an Integral part of the Agriculture Engineering curriculum designed to give the student a basic understanding of farm structures. The course will stress farmstead layout, cost of construction, foundation, types and sizes, column sizes and strength, live and static loads, and determining beam sizes and strengths. The repeatable b, c, and d courses that follow involve a higher level of skill development based upon the essential knowledge learned in "a." Each of these courses requires that the student successfully master the level below it in the hierarchy. Formerly ANIMAL SCIENCE 5a-b.

#### AG MECH FARM WELDING 106a-b Hours: 2 Lecture/Discussion 2 Lab

### Materials Fee: \$9.00

A study of the fundamental principles and practices of arc and oxygen-acetylene welding as used in agriculture construction and repair of farm buildings, fences, and equipment. Lectures, demonstrations, and lab work will include theory and practical operations with many different electrodes and metal types. All positions, Joint types, hard surfacing, cutting, brazing, and mig welding will be studied. Formerly AG MECH 6a-b.

			Cou	<b>RSE DESCR</b>	IPTIONS
	AGRICULTURAL MECHANIC	S	l	ANIMAL SCIENC	CE CONTRACTOR
AG MECH 107 Hours	FARM SURVEYING 3 Lecture/Discussion 1 Lab	3 UNITS	AN SCI 1 Hours:	INTRODUCTION TO ANIMAL SCIENCE 3 Lecture/Discussion 1 Lab	3 UNITS
compute of land levelin and fill man use levels, Laser scrap		e moved for a to develop cut t will be able to ire and survey.	animal pro the more withjob.op	ourse of the world's hunger pr ducts. The origin, characteris important breed of livestock portunities in animal agriculture e applied toward the Animal	stics, and adaption of are discussed, along b. It is a required course
	IRRIGATION	3 UNITS	AN SCI 2 a-b Hours:	LIVESTOCK SELECTION AND EVALUATION 2 Lecture/Discussion 2 Lab	2 UNITS I
108 Hours: A fundam understand Griddle for	<b>3 Lecture/Discussion</b> <b>1 Lab</b> nental course designed to give ding of basic soil and water relationshi mula is the foundation for irrigation of	e students an Ips. The Blaney- design of when	Beef, she performan	the animal form in relation to ep, and swine species a cedata and live observation. dents for intercollegiate livest	re evaluated using Thiscourse is designed
and transp	ndhowmuch water to apply. Pumps, ort of water and salt problems will b study. Formerly AG MECH 8.		Hours:	HORSE HUSBANDRY 3 Lecture/Discussion 1 Lab	3 UNITS
109 Hours:	SMALL ENGINES AND EQUIPMENT 2 Lecture/Discussion 2 Lab	2 UNITS	evaluation Anatomy,	ctory course to the current statu a of the horse, breeds of ho diseases, unsoundness, vices ient of the equine.	orses, and their uses.
and garde safety, a	<b>ee: 55,00</b> he basic principles of modern smal n equipment including operation, s nd maintenance. Lectures, ic tions will include theory and practico	ervice, repairs, ab work and	AN SCI 103 Hours:	ANIMAL NUTRITION 3 Lecture/Discussion	3 UNITS
many different	rent engines and equipment. The fol will be studied: spray rigs, lawn mov edgers, chain saws, sod cutters, and	lowing types of wers, trenchers,	A study off of feedstu livestock. A of simple r	<b>1 Lab</b> he constituents of feeds; the d lifs, and Identification of fee Aintroduction to feeding stand ations. The economics in fee utritive values. Formerly AN S	eds for each class of ardsand.computation eding and purchasing
AG MECH 110a-d Hours:	AGRICULTURE PROJECT CONSTRUCTION 2 Lecture/Discussion 2 Lab	2 UNITS	Prerequisit Recomme	es: Animal Science 1. nded Prerequisite: Ag 201 or l requivalent.	
give studer technology This class v constructio buildings.	e: \$15.00 Construction is an introductory cour nts a basic understanding of the m y of building and repairing agricultu will study the characteristics, types in materials for their use in farm e This is a practical course in build ojects having to do with agriculture	nechanics and re implements. , and costs of quipment and ing metal and	parasites symptoms,	ANIMAL DISEÁSES AND SANITATION 3 Lecture/Discussion 1 Lab ence 104 is a study of the ca of livestock. Topics of inte , prevention and treatment lites found in livestock. Forme	of common diseases
	•				

### ANIMAL SCIENCE

AN SCI 105a-c Hours:	LIVESTOCK FOR SHOWS AND S 2 Lecture/Discussion 2 Lab	2 UNITS ALES	AN SCI 112 Hours:	SHEEP PRODUCTION AND MANAGEMENT 3 Lecture/Discussion 1 Lab	3 UNITS
Materials	56 Semester hrs. Activity Fee: \$10.00			sheepproduction in California management practices. Form	
A generc selecting best adv course w division li <b>Recomm</b> <b>AN SCI</b>	I study of handling beef, sheep, high quality livestock, and grod antage for shows and sales. Stud /II have the opportunity to part vestock show. Formerly AN SCI 5 winded Prerequisite: Must be an o INTRODUCTION TO MEAT SCIENCE	ming them to their dents enrolled in this icipate at a senior	The stude bridle, and proper us	BASIC EQUITATION 2 Lecture/Discussion 2 Lab ee: \$50.00 nt will learn the proper way to d mount the horse. A great dec e of their natural-aids. Riding adle, this class is designed to	al offime is spent on the g both bareback and
107 Hours:	3 Lecture/Discussion		students v	with little or no experience, but the state of the state	ut also the advanced
and mari skills inclu	1 Lab f the meat processing Industry, USI keting and nutritional aspects of m ide the processing, handling, Insp ck and poultry species. Formerly	peat products. Basic pection, and storing	AN SCI 123 Hours:	HORSE PRODUCTION 3 Lecture/Discussion 1 Lab	3 UNITS
AN SCI 108a-b Hours:	MEAT GRADING AND SELECTION 4 Lecture/discussion 56 Lab hours/semester	2 UNITS	herd. The feeding, includest foaling, b	cience 123 involves the intense students have a hands-on a and breeding of the horses a he care of the brood mares be basic health concerns for a cesworking with horses of all ag	approach to the care, at the COS Farm. This store, during, and after herd of horses, and
An advar USDA Qu carcasse may con out-of-sto	Fee: \$5.00 Incedicourse designed to train stud Juality and Yield Grades of bee is, along with the selection of who Inpete in Intercollegiate Judging ate. Formerly AN SCI 9a-b.	of, lamb, and pork lesale cuts. Students events locally and	AN SCI 124a-b Hours:	COLT BREAKING 2 Lecture/Discussion 2 Lab	2 UNITS
AN SCI 110 Hours: Astudyof Basic skil	SWINE PRODUCTION AND MANAGEM 3 Lecture/Discussion 1 Lab fswine production and herdmana Is Include pre- and post-natal of lection. Formerly AN SCI 10.	3 UNITS ENT gement in California.	The stude bridle, mo spent on g of ioungin is designe experience	ee: \$5.00 nt will learn the proper way to bount the horse for the first time. ground work. The student will le g, driving the young horse from ed to teach not only the stu ce, but also the advanced ride breaking skills further.	A great deal of time is arn the proper method in the ground. This class dents with little or no
Basic skill calf oper	BEEF PRODUCTION AND MANAGEMENT 3 Lecture/Discussion 1 Lab fbeef production and herd manages s focus primarily on purebred and rations. Formerly AN SCI 11. Mes: Animal Science 1 is recomm	d commercial cow-	that prod Students associatio	EQUINE INDUSTRIES 40 hour Short Course (Field Trip Class) ed field trip will include visitati iuce, raise, and sell horses or will also visit the nation's large on offices that handles the adv ands of breeders. Formerly AN	n a commercial basis. Ist independent breed rertising and marketing

ANIMAL SCIENCE

### ANTHROPOLOGY

ANTHRO 4 PRE-COLUMBIAN ART AND CULTURE OF THE AMERICAS:

MESOAMERICA

3 Lecture/Discussion

### CROSS REF: Art 4

Hours:

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 this culture's philosophy, religion, politics, history, and economics. Included are the Olmec, Zapotec, Tailn, Mixtec, Maya and Aztec.

Anthropology 4 is NOI open to students who have completed or are enrolled in Art 4. Formerly ANTHRO 6A.

Recommended Prerequisite: English 1

#### 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 from the Early Hunters Stage until the European conquest. The course uses art as a vehicle for understanding this culture's philosophy, religion, politics, history, and economics. Anthropology 5 Is NOI open to students who have completed or are enrolled in Art 5. Formerly ANTHRO 6B. Recommended Prerequisites: English 1.

### ANTHRO 5H ART AND CULTURE OF PRE-COLUMBIAN 4 UNITS LATIN AMERICA

Hours: 4 Lecture/Discussion

Cross Ref: Art 5H

CAN ANTH 2

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. Prerequisites: Admission to the Honors Program.

ANTHRO 10 CULTURAL ANTHROPOLOGY 3 Lecture/Discussion Hours:

### **3 UNITS**

**3 UNITS** 

Cultural Anthropology is a multi-disciplinary subject encompassing the studies of extinct and extant cultures (archaeology and ethnology) around the world. Emphasis Is placed on the equality of man, his economic systems, religions, politics, kinships, personalities, social structures, linguistics, and cultural changes, Formerly ANTHRO 2, CAN ANTH 4 Recommended Prereaulisite: Eligibility for English 1.

primates, the emergence of man and the evidence presented

by human fossils. Human genetics and the probable reasons

for human variation are considered, asis the physical adaptation

of the human species to its environment. Formerly ANTHRO 4.

#### ANTHRO 11 PHYSICAL ANTHROPOLOGY Hours **3 Lecture/Discussion** The course discusses the behavioral characteristics of the living

ARCH 40

### 3 Lecture/Discussion

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.

Recommended Prerequisite: Eligibility for English 1.

### ARCHITECTURE

#### ARCH 10 INTRODUCTION TO ARCHITECTURAL 3 UNITS AND ENVIRONMENTAL DESIGN

#### 2 Lecture/Discussion Hours: 2 Lab

**3 UNITS** 

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** 2 Lecture/Discussion Hours:

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 TO GRAPHICS & PERSPECTIVE

2 Lab

Hours:

2 Lecture/Discussion

**3 UNITS** 

**3 UNITS** 

**3 UNITS** 

araphical 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.

The course is an introduction to the basic of techniques of

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

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 2R

**OF MATERIALS** Hours:

STRENGTH

### ARCHITECTURE

3 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 ARCH 40.

ARCH	PERSPECTIVE		<b>3 UNITS</b>
121a-c	ALTERNATIVES		
Hours:	3 Lecture/Discussion	1	
	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 a valuable career asset for people interested in architecture, illustration, building trades, and interior design. Formerly ARCH 44a-c.

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

3 UNITS

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 soil and hydrostatic pressures on structural systems will be explored. Recommended Prerequisites: Completion of Arch 40. Formerly ARCH 6C,

ARCH 150	COMPUTER ANALYSIS OF 2	UNITS
	BUILDING ENERGY USE	
Hours:	2 Lecture/Discussion	
	2 Lab	
A basic c	ourse in the application of computer	r program

approved by the California 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 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.

ARCH	COMPUTER ASSISTED	3 UNITS
161a-c	ARCHITECTURAL DETAILING	
Hours:	2 Lecture/Discussion	
	3 Lab	
Anaduar	and thick of the grabite of irol dealer	and contruction

An advanced study of the architectural design and construction process. The study of architectural detailing methods and techniques is carried out through the application of draffing techniques and computer graphics to the interrelated areas of architectural/engineering design and construction materials and processes.

**Recommended Prerequisites/Co-requisites:** Drafting 110 or equivalent, Architecture 131 or equivalent.



ART 1 ART APPRECIATION Hours: 3 Lecture/Discussion

### **3 UNITS**

2 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 2 ART HISTORY

**3 UNITS** 

Hours: 3 Lecture/Discussion

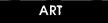
Art 2 traces the development of art from the Paleolithic era through the Middle Ages. The interrelationships between art and religion, politics, historical events, and philosophy are major foci of study. Formerly ART 1A. CAN ART 2.

### ART 3 ART HISTORY Hours: 3 Lecture/Discussion

**3 UNITS** 

A survey of the history of art of the Western world and its sociocultural milleu from the Proto-Renaissance to the present. illustrated lectures, Formerly ART 1B. CAN ART 4. **Prerequisites:** Art 2 is NOT a prerequisite to Art 3.

148



**PRE-COLUMBIAN ART AND** 

CULTURE OF THE AMERICAS:

ART 4

3 UNITS

MESOAMERICA 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>NOT</u> open to students who have completed or are enrolled in Anthropology 4. Formerly ART 2A. **Prerequisites:** English 1 recommended.

ART 5 PRE-COLUMBIAN ART AND 3 UNITS 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 CULTURE OF PRE-COLUMBIAN 4 UNITS LATIN AMERICA

### Hours: 4 Lecture/Discussion

Cross Ref: Anthropology 5H

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. ) **Prerequisites:** Admission to the Honors Program.

ART 6 COLOR AND DESIGN Hours: 2 Lecture/Discussion 2 Lab 3 UNITS

### 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.

## ART

### ART 7 COLOR AND DESIGN 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. 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.

Recommended Prerequisite: Art 6 or CFS 6.

**DRAWING FUNDAMENTALS** 

**3 UNITS** 

**3 UNITS** 

### Hours: 2 Lecture/Discussion 2 Lab

ART 8

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 9 DRAWING COMPOSITION Hours: 2 Lecture/Discussion

Irs: 2 Lecture/Discussion 2 Lab

### Materiais Fee: \$10.00

A second semester drawing course exploring the expressive and compositional aspects of drawing. Art 8, Drawing Fundamentals, is a recommended prerequisite. Formerly ART 7B.

ART 10a-d FIGURE DRAWING Hours: 2 Lecture/Discussion 2 Lab

### **2 UNITS**

**3 UNITS** 

### Materials Fee: \$10.00

Art 10a-d is basically a drawing course designed to provide the learner with a variety of approaches in representing the human figure. Formerly ART 8a-d.

Recommended Prerequisite: Art 8.

ART 11a-d SCULPTURE Hours: 1 Lecture/Discussion 2 UNITS

### 3 Lab Materials Fee: \$20.00

The manipulation of 3-dimensional materials and basic studio practices using clay, plaster, wood, fibers, and synthetic materials. Techniques of sculpturing and the finishing processes for preservation. Formerly Art 10a-d. CAN ART 12 includes ART 11a or 11b.

Recommended Prerequisites/Co-requisites: Art 6 or 8.

### .

	ARI			
Hours:	WATERCOLOR PAINTING 2 Lab 2 Activity and techniques of watercolor po	<b>2 UNITS</b>	ART 101 Hours: Materials F	INTRODUCTORY CR/ 2 Lecture/Discussion 3 Lab ee: \$20.00
practice in watercolor	still life landscape and other subject		Selected ex for art ma	xperlences from vario ijors, elementary ec des, and anyone inter
ART 13a-d Hours:	STUDIO PAINTING 2 Lecture/Discussion 2 Lab	2 UNITS	ART 103a-c Hours:	ART ILLUSTRATING 2 Lecture/Discussion 4 Lab
styles of eas Can be rep	d studio practice in the theories, te sel painting. Emphasis Is on oll and ac beated for up to 8 units credit. <b>Ided Prerequisites:</b> Art 6 and 8. Form	crylic mediums.	agency ari to comp to As well as c shirt design	ee: \$20.00 ill experience the exc tist, taking their comr camera-ready, crec creating projects ilke is etc., students will to bill the customer.
ART 15 Hours:	PRINTMAKING 1 Lecture/Discussion 3 Lab	2 UNITS		nded Prerequisites: A
silkscreen, r	ee: \$20.00 urse in the use of the following print metal etching, and collagraphs. CA aded Prerequisite: Art 6. Formerly A	N ART 20	Hours:	LETTERING FOR GR 2 Lecture/Discussion 2 Lab
ART 16 Hours:	ADVANCED PRINIMAKING 1 Lecture/Discussion	2 UNITS	watercolor	on of graphic tools; r into the developm s. Formerly ART 11a-c
developas process. C	ed course in the use of printmaking. tudent's personal artistic ideas using t	heprintmaking	ART 105a-c Hours:	: BASIC METALCRAF FORGING 3 Lecture/Discussion 3 Lab
		5 mileny 7 m 200.		Welding 105a-c for women and me chniques, basic tools
Hours:	BASIC CERAMICS 1 Lecture/Discussion 3 Lab	2 UNITS		and construction of
slab constr approache	urse in making objects in clay using u uction techniques. Both additive a swill be explored and student will be ig level exposure to throwing clay	nd subtractive provided with	art majors. prior to the instructor. and historie	ART STUDY TOUR 20 Lecture/Discussion Participants are exp tour by reading perti- These may include cal sources as well a /regions being visited
Hours:	DECORATIVE CERAMICS 1 Lecture/Discussion 3 Lab	2 UNITS	to expose painting, so work will be	students, first hand, t culpture, and archite e based on participa
employed potters whe on probler	ee: \$20.00 an overview of various materials by production potters, with emphas eel, mold making and slip casting. M n-solving and involvement with the prmerly ART 54a-b.	ls on use of the Aajor emphasis	examinatio	ons. Formerly ART 18.

AFTS 2 UNITS n ouscraft areas. Recommended ducation majors, prospective ested in general crafts. Formerly **3 UNITS** n citing and fast-paced life of an mercial Illustrations from layout ating excellent portfolio pieces. full-color magazine spreads, Txperience various agency jobs Formerly ART 5a-c. rt6 and/or Art8 or by permission APHICS **3 UNITS** ion examples, pencils, pens, ink, ent of precise and interesting d. T WELDING & **3 UNITS** on en in metaicraft welding and for welded craft projects and abstract shapes and finished **1 UNIT** on eneral students, the public, and pected to prepare themselves Inent materials selected by the historical art, archaeological as more general orientations to d. The purpose of the course Is o major works of art (including ecture). Evaluation of students' ation, an assigned essay and/or

ART

2 UNITS

 ART
 EXHIBITION

 111a-b
 DESIGN, GALLERY

 Hours:
 1 Lecture/Discussion

 3 Lab

This course covers the theory and technique of the proper presentation of art works; the exhibition of student, local, and national professional artists' works; and the participation in the display of projects other than those of works of art. Formerly ART 25a-b.

ART 114	ART PRODUCTION	3 UNITS
Hours:	2 Lecture/Discussion	
	4 Lab	

This course covers the process and preparation of graphic design for advertising and editorial assignments.

**Recommended Prerequisites:** Art 6 and/or Art 8, Art 103, or by permission of the department.

ART 174a-b	FASHION ILLUSTRATION	2 UNITS
Hours:	2 Lecture/Discussion	
<b>CROSS REI</b>	F: FASH 174a-b	

Fundamentals of fashion Illustration, including a study of current fashion ideals; drawing fashion proportioned figures and faces, rendering garment details, fabrics and accessories; familiarizing student with fashion publications; preparing illustration including layout, stylizing drawings, and matting drawings for presentation. Formerly ART 13a-b.

ART 212	PAINTING/PHOTOGRAPHIC REALISM	2 UNITS
Hours:	2 Lecture/Discussion	•
	2 Lab	

Exploration and practice of the historical and contemporary use of photography as the subject and an aid to painting. Beginning and advanced work in oils and/or acrylics. Formerly ART 60a-d.

Recommended Prerequisites: Art 6 and 8.

### ASTRONOMY

ASTRONOMY INTRODUCTION TO ASTRONOMY 3 UNITS 10

### Hours: 3 Lecture/Discussion

A survey course covering the basic concepts, theories, history, and laws of astronomy. Emphasis will be given to motions of the moon, sun, and planets; use of astronomical instruments; study of stellar spectra; properties of the stars; planetology and characteristics of the bodies of our solar system. Laboratory and observation sessions acquaint the student with the tools and methods used in acquiring knowledge about the universe. **Recommended Prerequisite:** Eligible for enroliment in English 1. Completion of Math 53 with a grade of "C" or better or a score on the COS Math Placement Test taken within three semesters which indicates mastery of intermediate algebra.

### AUTOMOTIVE MECHANICS

AUTO 100 BENCH WORK AND SAFETY Hours: 1 Lecture/Discussion 1 lab **1 UNIT** 

The first course in the automotive program and is required for all Auto Mech students. Topics that will be covered are development of shop skills, safe conduct and use of tools, fastener tightening procedures, bolt size selection, use of correct fluids and the construction and care. Formerly AUTO 70.

### AUTO 101 AUTOMOTIVE ELECTRICITY Hours: 3 Lecture/Discussion 4 Lab

4 UNITS

An Introductory course in the automotive electrical system. Instruction covers the inspection, testing and repair of the total electrical system. The lab portion of the course is conducted in a service garage type atmosphere which allows the students to receive as much hands-on experience as possible. Formerly AUTO 71.

Recommended Prerequisite: Automotive Mechanics 100.

### AUTO 102 FUEL AND COOLING SYSTEMS 3 UNITS Hours: 2 Lecture/Discussion 4 Lab

Acore course in automotive fuel and cooling systems. Instruction covers the testing and repair of the complete automotive fuel system; cooling system operation, testing and repair; emission control systems inspection and repair. The student will be working with both trainer models and operational units. Formerly AUTO 72.

Prereguisites: Automotive Mechanics 100 and 101.

### AUTOMOTIVE MECHANICS

AUTO 103 AUTOMOTIVE ENGINES Hours: 2 Lecture/Discussion 6 Lab	4 UNITS	AUTO 108 AUTOMOTIVE ENGINE TUNE-UP 5 UNITS Hours: 3 Lecture/Discussion
Instruction in the construction, theory automotive engine. The lab work will re- perform the necessary steps to rebuild a The student will be required to furnish a work. Formerly AUTO 73. <b>Prerequisites:</b> Automotive Mechanics 10	quire that the student n automotive engine. n engine for their lab	<b>6 Lab</b> Instruction in advanced electrical theory, related to the entire electrical system, transistor ignition and regulation. Transisto distributor and alternator overhaul. Tune-up and trouble shooting of the engine and related circuits. Formerly AUTO 78 <b>Recommended Prerequisites:</b> Automotive Mechanics 100 & 101. Automotive Mechanics 102 may be taken concurrently
AUTO 104 AUTOMOTIVE POWER TRAIN ANALYSIS Hours: 2 Lecture/Discussion 4 Lab A study of the mechanical transmission of modern automobile and light truck. So operation and repair; three, four, and fiv operation and repair; drive shaft, differ operation and repair; power steering purr gear operation and repair. Formerly AU Recommended Prerequisites: Automotiv 101, or employment as an apprentice m	Study Includes clutch e speed transmissions rential and drive axle np and power steering ITO 74. re Mechanics 100 and	AUTO 109       AIR CONDITION AND ACCESSORIES       3 UNITS         Hours:       2 Lecture/Discussion 4 Lab       1         Instruction in most automotive accessories with emphasis in heating and air conditioning system diagnosis and repair Formerly AUTO 79.       1         Recommended Prerequisites:       Automotive Mechanics 100 & 101.
AUTO 105 BRAKES AND ALIGNMENT Hours: 2 Lecture/Discussion 4 Lab/Demonstration instruction in basic hydraulics, repair a several types of standard and power braki in alignment, steering geometry and sus Formerly AUTO 75. Prerequisites: Automotive Mechanics 10	3 UNITS nd reconditioning of ng systems. Instruction spension systems.	AUTO       ADVANCED AUTOMOTIVE FUEL       3 UNITS         112       INJECTION       3 Lecture/Discussion         Hours:       3 Lecture/Discussion       1 Lab         Auto Mechanics 112 is an in-depth study of automotive fue       injection systems and related emission control devices         Instruction covers from basic mechanical fuel injection to modern electronic fuel injection systems. Included for each system is its description, operation, components, basic testing and servicing, and diagnostic alds and procedures.         Recommended Prerequisites/Co-reguisites: Auto Mechanic 202 or department approval.
AUTO 106 AUTOMATIC TRANSMISSIONS Hours: 2 Lecture/Discussion	4 UNITS	
<b>6 Lab</b> A study of automatic transmissions and t used in domestic and import automot Study includes torque converter oper hydraulic system function and diagnosis; and application. These theories and pr into practice by overhauling specified t automatic transmissions. Formerly AUTO <b>Recommended Prerequisites:</b> Automotiv Automotive Mechanics 101, or employm mechanic.	blies and light trucks. ation and diagnosis; planetary geartheory rinciples are then put two and three speed 76. re Mechanics 100 and	AUTO 113       COMPUTERIZED       3 UNITS         ENGINE CONTROL       Hours:       2 Lecture/Discussion         Hours:       2 Lecture/Discussion       4 Lab/Demonstration         Instruction in advanced electrical theory related to computerized engine controls, trouble-shooting and repair of computer control systems on the modern automobile.         Formerly AUTO 82.         Recommended Co-requisite: Auto Mechanics 108.
AUTO 107 ADVANCED AUTO TRANSMISSIONS Hours: 2 Lecture/Discussion 4 Lab An advanced course in automatic tran repair. The student will have already pa and will be ready to deal with today' transmissions. The course is generally Chrysler, Ford, and General Motors of transmissions. Automatic transaxles are course of study. Formerly AUTO 77. Recommended Prerequisites: Automotiv and 106. 152	ssed the basic course s more sophisticated directed toward the automatic overdrive e also covered in the	AUTO 160 BASIC AUTOMOTIVE ELECTRICITY 2 UNITS Hours: 2 Lecture/Discussion 1 Lab Instruction in the theory of electricity, magnetism and induction Theory and operation of battery, starting ignition, generating and regulating systems. Overhaul and service of all of the above items. Formerly AUTO 59.

AUTOMOTIVE MECHANICS

### **AUTOMOTIVE MECHANICS**

AUTO 161 AUTOMOTIVE ENGINE TUNE-UP 2 UNITS Hours: 2 Lecture/Discussion 1 Lab

Study of compression, electrical and fuel systems as it pertains to automotive tune-up. Formerly AUTO 61.

AUTO 162	AUTOMOTIVE TRANSMISSIONS	2 U	NITS
Hours:	1 Lecture/Discussion		
	2 Lab		
	2 Activity		

An introductory course in automatic transmission theory, maintenance and repair. Study includes torque converter operation and diagnosis; hydraulic system function and diagnosis; planetary geartheory and application. These theories and principles are then put into practice by overhauling specific three and four speed automatic transmissions. Formerly AUTO 62.

AUTO 164	AUTOMOTIVE AIR CONDITIONING	2 UNITS
Hours:	2 Lecture/Discussion	
	1 Joh	

Instruction in automotive heating and air conditioning systems operation, diagnosis, and repair. Formerly AUTO 64.

### AUTO 165 AUTOMOTIVE FUEL SYSTEMS 2 UNITS Hours: 2 Lecture/Discussion 1 Lab

An in-depth study of automotive fuel systems. Instruction covers testing and repairing carburetors, mechanical and electronic fuel injection. Fuel pump filters and support components of the automotive fuel system are covered in the course of study. Formerly AUTO 65.

**Recommended Prerequisite:** Basic engine theory recommended.

<b>AUTO 166</b>	AUTOMOTIVE BRAKES	2 UNITS
Hours:	2 Lecture/Discussion	
	llab	

Instruction in basic hydraulics, repair and reconditioning of several types of drum brakes, disc brakes, and power braking systems. Formerly AUTO 66.

AUTO 167	AUTOMOTIVE WHEEL ALIGNMENT	2 UNITS
	AND SERVICE	
Hours:	2 Lecture/Discussion	

### i Lab

Instruction in automotive front wheel alignment, steering geometry, front suspension systems, and wheel balancing. Formerly AUTO 67.

### AUTOMOTIVE MECHANICS

**2 UNITS** 

<b>AUTO 168</b>	<b>AUTOMOTIVE POWER TRAIN</b>	
Hours:	1 Lecture/Discussion	
	2 Lab	

### 2 Activity

Instruction In theory, servicing, maintenance and repair of automotive clutches, manual transmission, transaxies, universal Joints, drive lines, drive axies and differentials. This course is primarily designed to allow already employed mechanics to broaden their fields of expertise in automotive repair. Formerly AUTO 68.

	COMPUTER/ELECTRONIC CONTROLLED OPTIONS	2 UNITS
169a-c	COMIKOLIED OPHONS	
Hours:	2 Lecture/Discussion	
	1 Lab	

Provides upgrading and retraining to current employees in the automotive industry. Provides a learning environment for understanding new concepts and skills that are now necessary for automotive technicians due to the integration of computer controlled engine systems. This course may be repeated due to the rapid change in computer control automobile technology. The repeatable b, c, d courses that follow involve a higher level of skill aevelopment based upon the essential knowledge learned in "a". Students are given projects and activities which require not only this higher level of skill, but also new and more complex situations which require higher levels of analysis, abstraction and creativity. Each of these courses requires that the student successfully master the level below it in the hierarchy. Formerly AUTO 81a-c.

**Recommended Prerequisite:** It is recommended that the participant have an automotive background. The class will combine students with very little repair experience with journeymen who have had extensive training.

## AUTO AUTOMOTIVE FUEL INJECTION 3 UNITS 202

### Hours: 3 Lecture/Discussion

An In-depth study of automotive fuel injection systems. Instruction covers testing, diagnosis and repair of modern electronic fuel injection systems. Fuel pumps, filters and support components of the automotive fuel system are covered in the course of study.

AUIO 263a-d	CLEAN AIR CAR COURSE	4 UNITS
Hours:	4 Lecture/Discussion	
	8 Lob	

An intense course of study designed to develop technical skills in emission systems maintenance. The course will prepare the student for certification by the Bureau of Automotive Repairs to test, replace or repair automotive emission components. The course of study includes a summary of the causes of automobile emissions, the vehicle components designed to control each of these undesirable gases, and the test procedure required to evaluate each component's condition. Formerly AUTO 63a-d. **Recommended Prerequisites:** Auto 100, 101, 102, 108 and 113 or employed by a registered automobile repair facility.

### AUTO MECHANICS

### AUTO 300 AUTOMOTIVE FAMILIARIZATION 1.5 UNITS Hours: 2 Lecture/Discussion 1 Lecture/Demonstration

A **nine week** survey course in automotive technology. The course of study includes batteries, starters, ignitions systems, fuel systems, charging systems, brakes, tires and wheels. The course is for those with minimal mechanical knowledge and ability. The primary thrust is to teach the students how to shop for the correct product or service to meet their individual needs. Such items as which battery to buy, how often the oil should be changed, and other periodic maintenance requirements will be covered. Formerly AUTO 91.

Prerequisite: Must be enrolled into the SUCCESS Program.

### AUTO 499 PROFESSIONAL TECHNICIAN 0 UNITS UPDATE Hours: Lecture/Discussion as arranged by instructor

An introduction to current and advanced automotive technology to keep automotive technicians up to date on changes in the industry. Formerly AUTO 92a-d.



### **BIOLOGY 1 GENERAL ZOOLOGY**

**5 UNITS** 

### Hours: 3 Lecture/Discussion 6 Lab

Biology 1 is the first of a two course sequence (with Biology 2) that serves as the introductory year of biology for biology majors (premedicine, predentistry, prepharmacy, marine biology,biologyteaching,etc.). The course studies the principles of the comparative anatomy, physiology, and embryology of the major animal phyla. Detailed consideration is given to organismic, cellular and organelle levels of organization. Other topics presented include molecular biology, biochemical and Mendelian genetics, ecology, and evolution. CAN BIOL SEQ A includes Biology 1, 2, and 103.

**Recommended Prerequisite:** Completion of one semester of college chemistry (Chem 1 or 20). Biology 103 is a co-requisite.

### BIOLOGY 2 GENERAL BOTANY

**5 UNITS** 

### Hours: 3 Lecture/Discussion 6 Lab

A biology major's course of study of the basic principles of plant cytology, morphology, biochemistry, plant diversity, classification, phylogenetic survey, evolution, speciation, taxonomy, physiology, and ecology. These principles are developed for the plant, monera, fungi, and protist kingdoms. The course is a combination of lecture, laboratory, and field experience. CAN BIOL 6, CAN BIOL SEQ A includes Biology 1, 2, and 103.

**Prerequisite:** One semester of college chemistry, Biology 1 and Biology 103.

### BIOLOGY

**4 UNITS** 

### BIOLOGY 20 FRONTIERS IN BIOLOGY Hours: 3 Lecture/Discussion

3 Lab

A general principles course for transferstudents that are not lifescience majors. The principles of homeostasis, genetics, energy flow, evolution, reproduction and ecology will be used to explore contemporary topics in biology. Not open to students who have received credit for Biology 1.

Recommended Prerequisite: Eligible for English 1. Formerly BIOLOGY 10.

## BIOLOGY FRONTIERS IN BIOLOGY - HONORS 4 UNITS 20H

Hours: 3 Lecture/Discussion 2 Lab

1 Honors Colloquium

A general principles course for transfer students that are not lifescience majors. The principles of homeostasis, genetics, energy flow, evolution, reproduction and ecology will be used to explore contemporary topics in biology. Not open to students who have received credit for Biology 1. Formerly BIOLOGY 10H. **Co-requisite:** Acceptance into the COS Honors Program.

## BIOLOGY PLANT BIOLOGY 3 UNITS

### Hours: 3 Lecture/Discussion 2 Lab

This is a general principles course in plant biology for the nonbiology major. The principal topics included are: general characteristics of plants, plant survey, methods of classification and nomenclature, plant structure and function, growth and development, reproduction and genetics, and ecology. (Not open to students who have received credit in Biology 2.) Formerly 80TANY 10.

Recommended Prerequisite: Eligible to enroll in English 1.

### BIOLOGY 22 ANIMAL BIOLOGY 3 UNITS Hours: 3 Lecture/Discussion 2 Lab

This is a general principles course in animal biology designed to help meet a laboratory requirement for transfer students who are not life-science majors. The principles of the scientific method, evolution and adaptation, bioenergetics, homeostasis, genetics, and ecology are emphasized in class and field activities. It is not open to students who have received credit for Biology 1. Formerly ZOOLOGY 10.

Recommended Prerequisites: Eligible for English 1.

### BIOLOGY 25 HUMAN ECOLOGY

**3 UNITS** 

Hours: 3 Lecture/Discussion This survey course covers ecological principles and the historic and modern impact of human societies as agents of ecosystem modification. Formerly ECOLOGY 1.

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### BIOLOGY

#### **BIOLOGY 30 HUMAN ANATOMY** Hours: 3 Lecture/Discussion 3 Lab

**4 UNITS** 

Blology 30 is a general survey course designed to acquaint the beginning student with enough an atomical principles necessary to understand the basic structure of the human body. A systems approach based on the histology of organs is used. Problem solving which utilizes creative thinking, critical thinking, analysis and reasoning as utilized by the International Committee for Anatomical Nomenclature is emphasized. This course will satisfy the needs of health and life science majors requiring a course in human anatomy. Formerly ANATOMY 1. CAN BIOL 10.

#### **BIOLOGY 31 HUMAN PHYSIOLOGY** Hours: 3 Lecture/Discussion 3 lab

4 UNITS

4 UNITS

Blology 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, endocrine studies, metabolic rates, muscle-nerve preparations, breathing and various physiological recordings such as EKGs EEGs and EMGs. Formerly PHYSIOLOGY 1. CAN BIOL 12 Prerequisites: Biology 30 and Chemistry 1, or Chemistry 20 or equivalents.

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

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

## BIOLOGY MATTER, ENERGY

1 UNIT

#### 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 biochemistry 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.

Prereaulsites: One semester of college level chemistry, Biology 103 is to be taken concurrently with Biology 1.

#### **BIOLOGY NATURAL HISTORY OF THE 1 UNIT** 126 **GIANT SEQUOIA**

Hours: Short Term Course - 54 hrs. Activity (1Week) An intensive one-week field experience examining the natural history of the Giant Sequola, Held In Kings Canyon and sequola National Parks, the biology of the sequola tree will be studied with regard to ecology and human impact. Offered in conjunction with the Sequoias Natural History Association's Field Seminar program.

Recommended Prerequisites: College level biology course desirable.

#### **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 100 DRAWING FOR **BUILDING CONSTRUCTION** Hours: 2 Lecture/Discussion 2 Lab

A required four (4) hour per week practical 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).

2 UNITS

### **BUILDING TRADES**

2 UNITS

BLD TR 101 DRAWING FOR BUILDING CONSTRUCTION II Hours: 2 Lecture/Discussion

2 Lab

A required course in drawing for all building trades students. The fundamentals of architectural draffing, biueprint 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, 114, 115 and 200. BLD TR 105 and 115 are normally taken concurrently.

# BLD TR 104 CARPENTRY I, RESIDENTIAL 3 UNITS CONSTRUCTION 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:** BLDTR 114 and BLDTR 200 should be taken concurrently.

### BLD TR 105 CARPENTRY II, 3 UNITS 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 ADVANCED CARPENTRY I, ROOF FRAMING 3 UNITS Hours: 2 Lecture/Discussion 4 Lab 4 Lab

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:** Bidg. Trades 104, 105, 114, 115, 100 or 101; trade experience; or permission of the department.

### **BUILDING TRADES**

**3 UNITS** 

**4** UNITS

### BLD TR 109 ADVANCED CARPENTRY II STAIR BUILDING Hours: 2 Lecture/Discussion 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 and cutting various kinds of stairs, the various methods of estimating, and investigate the ways property is laid and numbered in the state of California. Formerly BLD TR 56B.

**Recommended Prerequisite/Corequisite:** BLD TR 100, 101, 104, 105, 114, 115, 108; Trade experience or permission of the department.

# BLD TR 114 RESIDENTIAL CONSTRUCTION I 4 UNITS Hours: 2 Lecture/Discussion 6 Lab

The first class in the Bullding Trades program that provides hands-onlearning 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, ceiling and roof systems, roofing, plumbing, insulating and window instaliation. Formerly BLD TR 75A.

**Recommended Prerequisite/Corequisite:** Building Trades 104 and 100 should be taken concurrently.

### BLD TR 115 RESIDENTIAL CARPENTRY II Hours: 2 Lecture/Discussion 6 Lab

The second class in the Bullding Trades program that provides hands-onlearning 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, 100, 114, 105 and 101. BLD TR 105 and 101 are normally taken concurrently.

# BLD TR 118 RESIDENTIAL CONSTRUCTION III 4 UNITS Hours: 3 Lecture/Discussion 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, raffers, 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, 100, and 101 or by permission of the department.

### **BUILDING TRADES**

### BLD TR 119 RESIDENTIAL CARPENTRY IV 4 UNITS Hours: 3 Lecture/Discussion 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 118, or by permission of the department.

# BLD TR 125 FUNDAMENTAL REMODELING 4 UNITS Hours: 3 Lecture/Discussion 3 Lab

This course is a basic remodeling course with no prerequisites. The course covers framing, plumbing, electrical, insulation, drywall, finish carpentry and painting. This course is designed for persons interested in remodeling from the novice to the experienced builder or anyone interested in remodeling. This course will be taught using a lecture/demonstration presentation with hands-on remodeling projects. The use and safety of typical construction tools and equipment will be taught.

### BLD TR 130 BLUEPRINT 3 UNITS READING, RESIDENTIAL CONSTRUCTION

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 UNITS

Hours: 3 Lecture/Discussion

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

### **BUILDING TRADES**

### BLD TR 138 CONTRACTORS LICENSE LAW

### Hours: 3 Lecture/Discussion

A study of the fundamental concepts, principles, and applications of construction laws, lien 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.

### BLD TR 149 INTRODUCTION TO BUILDING TRADE 4 UNITS CAREERS FOR WOMEN--CABINET MAKING Hours: 3 Lecture/Discussion

3 Lab

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 hand tools, 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.

# BLD TR 150 CABINETMAKING I 4 UNITS FUNDAMENTALS OF CABINETMAKING Hours: 4 Lecture/Discussion

2 Lab

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 drafting and sketching, planning and estimating, trade nomenclature, theory of cabinet construction, and methods of layout. Formerly BLD TR 77A.

**Recommended Prerequisites/Corequisite:** BuildingTrades 104, 105, 114, 115, 100, and 101 or by permission of the department.

BLD TR 151 CABINETMAKING III Hours: 4 Lecture/Discussion 2 Lab

4 UNITS

**3 UNITS** 

A study of the fundamental concepts, principles, and applications of cabinet making 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 150, 160. taken concurrently with BLD TR 161; trade experience or by permission of the department.

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### **BUILDING TRADES**

### **4 UNITS**

### CABINETMAKING TOOLS AND MILLWORK 3 Lecture/Discussion

Hours: 3 Lecture/Discussion 3 Lab

**BLD TR 160 CABINETMAKING II** 

### 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, proper use 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:** BLD TR 150 if not completed previously, should be taken concurrently. Trade experience or permission of the department.

# BLD TR 161 CABINETMAKING IV 3 UNITS RESIDENTIAL CABINET CONSTRUCTION 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 Prerequisites/Corequisite:** BLD TR 150 and 160. Corequisite, BLD TR 151.

BLDG TR 162	BASIC CABINETMAKING	4 UNITS
Hours:	3 Lecture	
	3 Lab	

This course includes study of the fundamentals, concepts, principles and applications of cabinetmaking and millwork 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. **Recommended Prerequisites:** Any Building Trades courses, Trade experience, or Permission of the department.

### **BUILDING TRADES**

### BLDG TR 163 COMMERCIAL CABINET CONSTRUCTION Hours: 2 Lecture

4 Lab

The study of woodworking techniques, cabinet and milling details and drawings, the study and construction of cabinet doors and drawers, various methods of layout, and the construction of commercial cabinets. This course is an invaluable career asset for people interested in cabinetmaking of furniture making fields. It is of great value to the person pursuing a career in drafting, interior decorating, architecture or construction. **Recommended Prerequisites:** any cabinetmaking course. B.T. 150 and B.T. 160 should be taken with B.T. 151. Trade experience or permission of the department.

### BLDGTR 170 BUILDING SUPERVISION AND 3 UNITS INSPECTION

### Hours: 3 Lecture

This one semester course designed to meet the needs of persons engaged in the supervision and inspection of buildings under construction. Construction contract documents and plan reading, site, layout, basic principles of structural engineering, mechanics of materials, soll fundamentals and concrete construction are studied. The course will provide the students with an understanding of the fundamental engineering principles involved with the design of a structure.

**Recommended Prerequisites:** Experience in Building Trades or permission of the department.

### 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:** BLD TR; those engaged in building inspection; those engaged in the construction industry or consent of the department.

# BLD TR 180 MULTIPLE 2 UNITS RESIDENTIAL FIRE SPRINKLERS Hours: 1.5 Lecture/Discussion 1 Lab Building Trades 180 trains and educates the student to inspect

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.

### BUSINESS

### **4 UNITS**

BUS 18BUSINESS LAWHours: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 20BUSINESS STATISTICSHours: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, poisson, and normal distributions, and simple linear regression and correlation analysis.

**Recommended prerequisite:** Two years of high school Algebra or completion of Math 230.

## BUS 119 QUANTITATIVE METHODS 3 UNITS 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 125	CONSTITUTIONAL LAW: CIVIL	3 UNITS
	<b>RIGHTS AND CIVIL LIBERTIES</b>	
Hours:	3 Lecture/Discussion	

This course emphasizes the study of Constitutional Law by examining relevant case decisions impacting the Bill of Rights and our Civil Libertles as citizens within the rapidly growing and culturally diverse society in which we live.

**Recommended Prerequisites:** English 1 or equivalent; and Speech 1; or consent of division.

### BUS 127 INVESTMENTS 3 Units 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 the financial markets. Formerly BUS 27.

**Recommended Prerequisite:** Score equal to English 251 on the COS Placement Test.

### BUSINESS

BUS 138 LEADERSHIP TRAINING 1 Hours: 1 Lecture/Discussion

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 an understanding of how to maximize learning opportunities on the job. Coverage of the organizational structure, the development of

**1 UNIT** 

**1 UNIT** 

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 102 102

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 Prerequisites:** Bus 138

## BUS 150 ELEMENTARY SHORTHAND 5 UNITS Hours: 5 Lecture/Discussion 5

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 50.

Prerequisites: A keyboarding speed of 30 cwpm. Recommended Prerequisite: Eligibility for English 251.

### BUS 152 ADVANCED SHORTHAND 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.

### BUSINESS

# 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 3 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	
	3100	

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 61B. **Recommended Prerequisites:** Business 161 or its equivalent: Satisfactory keyboarding speed of 40 cwpm.

## BUS 170 INTRODUCTION TO SALES 3 UNITS Hours: 3 Lecture/Discussion 3 UNITS

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.

### BUSINESS

## BUS 174MARKETING PRINCIPLESHours:3 Lecture/Discussion

This course provides basic understanding of marketing principles as well as training and experience in planning, producing, storing, promoting; selling and distributing commodities.

## BUS 182 INTRODUCTION TO BUSINESS 3 UNITS Hours: 3 Lecture/Discussion 3

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, environmentai 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

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 a "C" grade in either English 251 or Business 293, knowledge of Wordperfect or Wordstar.

### BUS 188 HUMAN RELATIONS IN BUSINESS

**3 UNITS** 

**3 UNITS** 

### Hours: 3 Lecture/Discussion

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 230 SUPERVISION- 3 UNITS MANAGEMENT FOR THE FIRST-LINE SUPERVISOR Hours: 3 Lecture/Discussion

This course will provide students with an overview of supervision and leadership skills. The course is designed to be application oriented, using role playing examples and case studies to illustrate the concepts and involve the student actively in thinking about supervisory issues.

Recommended Prerequisite: Score equal to English 251 on the placement test.

160

### BUSINESS

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 easier. Formerly BUS 56.

**Recommended Prerequisite:** A score equal to English 251 on the COS Placement Test.

## BUS 258OFFICE PROCEDURESHours:3 Lecture/Discussion

### 3 UNITS

1 UNIT

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 2 UNITS Hours: 2 Lecture/Discussion 2

A business management course presenting a quick 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 Hours: 1Lecture/Discussion CROSS REF: Fash 260

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 588.

### BUS 266 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.

### BUSINESS

### BUS 268 ELECTRONIC CALCULATING Hours: 1 Lecture/Discussion 2 Lab

This course introduces the student to the electronic calculator, develops the touchmethod, 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 2 UNITS Hours: 2 Lecture/Discussion 1 Lab

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 293 BUSINESS ENGLISH Hours: 3 Lecture/Discussion

**3 UNITS** 

2 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:** Eligibility for English 251.

## BUS 295 BUSINESS MATHEMATICS 3 UNITS Hours: 3 Lecture/Discussion 3 UNITS

A broad course designed to expose students to a wide variety of business computations and applications, such as percents, discounts, markups and markdowns, simple and compound interest, consumer credit, payroll, depreciation, and investments, as well as the applied use of algebra in solving business problems.

**Recommended Prerequisite:** Completion of BUS 395 or Math 360 with a grade of "C" or better or an appropriate score on the Math Placement Test.

### BUSINESS

3 UNITS

BUS 297 PERSONAL FINANCE Hours: 3 Lecture/Discussion

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 miscelianeous 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 Hours: 1 Lecture/Discussion 1

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.

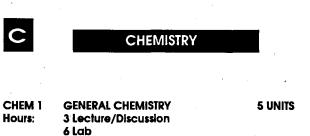
Prerequisites: Must be enrolled In SUCCESS Program.

BUS 360 Hours:	ELEMENTARY KEYBOARDING 9 Lecture/Discussion	1 UNIT
	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.

BUS 395	<b>REVIEW OF ARITHMETIC</b>	<b>3 UNITS</b>
	FOR BUSINESS	
Hours:	3 Lecture/Discussion	

This course is designed to review the concepts and mechanics of addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals with an emphasis on business applications.



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 stoichiometry, 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.

### CHEMISTRY

### CHEM 2 GENERAL CHEMISTRY 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.

**5 UNITS** 

Prerequisite: Chemistry 1 with a grade of "C" or better.

### CHEM 5 ANALYTICAL CHEMISTRY 5 UNITS Hours: 3 Lecture/Discussion 6 Lap

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. CAN CHEM 12 **Prerequisite:** Chemistry 2 with a grade of "C" or better.

CHEM 12	ORGANIC CHEMISTRY	5 UNITS
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: nomenciature, 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.

### CHEM 13 ORGANIC CHEMISTRY 5 UNITS Hours: 3 Lecture/Discussion 6 Lab 5

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 blochemistry, 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, stoichiometry, water and liquids, gas laws and concentrations of solutions, acid-base theory, and ionic equilibria. CAN CHEM 6.

**Prerequisites:** Eligibility for intermediate Algebra (Math 230) as determined by COS mathematics placement procedures. Formerly CHEM 2A. **Recommended Prerequisite:** High school chemistry or Chemistry 353.

162

### CHILD DEVELOPMENT

**3 UNITS** 

### CHEMISTRY

### CHEM 21

### **GENERAL ORGANIC** AND BIOLOGICAL CHEMISTRY

Hours: 3 Lecture/Discussion, 3 Lab

Introduction of the basic concepts, nomenclature and reaction of organic and biochemical 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, CAN CHEM 8

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 nomenciature, equation writing, introduction to the gas laws and stoichlometry. Formerly CHEM 53.

Prerequisites: Since this course starts with elementary algebraic manipulationsit is recommended that beginning algebra (Math 210 and 215) or high school algebra) be successfully completed prior to enrolling in Chem 353.

### CHILD DEVELOPMENT

CHLD CHILD DEVELOPMENT **DEV 39** 

**3 UNITS** 

#### 3 Lecture/Discussion Hours: **CROSS REF: Psychology 39**

This course traces child development utilizing basic theories such as Plaget, Erlkson, 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.

#### CHID CHILD, FAMILY AND SOCIETY **DEV 42**

**3 UNITS** 

#### 3 Lecture/Discussion Hours:

A study of the effects of the family and the society on the young child. Content includes family functions, structures and roles; societai influences; community resources; special needs groups. Formerly ECE 41.

CHLD CHILDREN'S NUTRITION **DEV 112** Hours

**4 UNITS** 

3Lecture/Discussion Cross Ref: Nutr/Foods 112

A survey course of children's nutritional requirements. 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.

#### CHLD CHILD ABUSE **2 UNITS DEV134**

Hours: 2 Lecture/Discussion

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 ludicial system roles relating to child abuse will be examined. Formerly ECE 35.

CHID	MUSIC EXPERIENCES IN	1 UNIT
DEV 135	EARLY CHILDHOOD	
	EDUCATION	
Hours:	1 Lecture/Discussion	

This course investigates various methods of utilizing musical 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 1 UNIT DEV 136**

#### Hours: 1 Lecture/Discussion

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.

#### CHLD SCIENCE **DEV 137 EXPERIENCES IN EARLY**

**1 UNIT** 

#### CHILDHOOD EDUCATION 1 Lecture/Discussion Hours:

This course Investigates various methods of integrating science experiences into the early childhood curriculum. Students will develop materials and methods appropriate for the development of the child and his/her understanding. Appropriate for teachers aides, care providers, parents and others interested in enhancing the child's science experiences. Formerly ECE 37C.

### CHILD DEVELOPMENT

**PRINCIPLES OF** CHLD EARLY CHILDHOOD **DEV 140 EDUCATION** Hours: 2 Lecture/Discussion

4 Lab

This course includes the study of early childhood programs, and the needs of the preschool child as related to the physical, mental, social, emotional and creative growth of the child. Together with Child Dev. 140It prepares the student for classroom teaching. The lab consists of supervised work in the C.O.S. lab school, The Child Development Center, or In approved offcampus sites. Formerly ECE 40A.

CHLD	PRACTICE IN	3 UNITS
DEV 141	EARLY CHILDHOOD	
	EDUCATION	
Hours:	2 Lecture/Discussion	
	4 Lab	

This student teaching course includes the study of a broad range of early childhood programs, and requires the student to develop and utilize a self-designed curriculum which meets the physical, mental, social, emotional and creative needs of the preschool child, included in the lab experience at C.O.S. lab school, the Child Development Center, or in approved offcampus sites, is the presentation of 13 curriculum activity presentations and one laboratory session in charge of the classroom as the teacher. Formerly ECE 40B.

Recommended Prerequisite: Child Dev. 140 or equivalent course as articulated with area high schools.

CHLD	ADMINISTRATION	3 UNITS
DEV 143	OF EARLY CHILDHOOD	
	EDUCATION	
Hours:	3 Lecture/Discussion	

Students will study the tasks of administering programs for children with special emphasis on the management of preschool and day care programs. The course includes program planning, organization, budgeting, personnel policy, record keeping, legal requirements and relationships with community, parents and regulatory agencies. It fulfills the state reauirement for directors in licensed child care centers. Formerly ECE 43A. Recommended Prerequisite: Child Dev. 140 and 141 or previous teaching experience.

CHLD	ADVANCED	3 UNITS
DEV 144	ADMINISTRATION OF	
	EARLY CHILDHOOD EDUCATION	
Hours:	3 Lecture/Discussion	

An advanced course in the administration of quality early childhood education programs, including time management, staff inservice, programs, parent and staff handbooks, grant and accreditation. Fulfills the state requirement for directors in licensed child care centers. Formerly Child Dev. 143.

Recommended Prerequisites: Child Dev. 140 and 141 or previous teaching experience and Child Dev. 143.

### CHILD DEVELOPMENT

CHLD PARENTING

**3 UNITS** 

**3 UNITS** 

#### **DEV 145** Hours: 3 Lecture/Discussion

This course is a comprehensive study of parenting and guidance techniques for those who influence the development of young children from parents to child care providers to teachers. Study is focused on communication, problem solving, positive guidance, environmental structuring and needs of young children. Formerly ECE 44.

#### **EXCEPTIONAL** CHID **DEV 146** CHILD

**3 UNITS** 

#### Hours: 3 Lecture/Discussion

This course provides basic information about the characteristics and distinctive problems of exceptional children and their unique patterns of development. Adaptation of the educational environment is studied, as well as the family's and teacher's roles, Identification is studied with emphasis on early intervention during the preschool years. Formerly ECE 45.

#### INFANT/TODDLER-**3 UNITS** CHLD CHILD CARE **DEV 147** Hours: 3 Lecture/Discussion

A study of the developmental areas of the Infant/toddler. Course includes the areas of social/emotional development, nutrition, cognitive/motor development, limit setting, language development, socializing among children, and play and learning. Students will develop a working knowledge to assist parents and care givers. Formerly ECE 46.

#### CHID **CHILD HEALTH 3 UNITS DEV 148** AND SAFETY Hours: 3 Lecture/Discussion

A study of health, safety and nutrition as related to the young child. This course enables teachers and parents to become fully aware of their contribution to the overall well-being of the children in their care. Topics include preventive health care, environmental safety, foods and nutrients, children's health problems and emergency and medical procedures. Formerly ECE 47.

#### СНГ CREATIVE **ACTIVITIES FOR YOUNG CHILDREN DEV 149** Hours: 2 Lecture/Discussion 1 Lab

Materials Fee: \$5.00

2 UNITS

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.

### CHILD DEVELOPMENT

2 UNITS

### CHLD CREATIVE DEV 150 ACTIVITIES FOR YOUNG CHILDREN Hours: 2 Lecture/Discussion

1 Lab <u>Materiais Fee: \$5.00</u>

This course includes the selection, planning and preparation of materials for activities in the Early Childhood Development curriculum. Materials relate 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	SCHOOL-AGE	3 UNITS
DEV 152	CHILD CARE	

Hours: 3 Lecture/Discussion

This course is a study of school-age child care. The content includes an overview of the physical, social and cognitive development of school-age children as well as care programs and community resources. This course investigates a variety of enrichment activities and curriculum for school-age children, including literature, science, drama, music, physical education and arts and crafts. It is appropriate for teachers, aldes, family day care providers, parents, and other interested in selecting school-age activities and curriculum. Formerly ECE 34.

CHLD	FAMILY DAY CARE	1 UNIT
DEV 156	MANAGEMENT	

Hours: 1 Lecture/Discussion

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 Lecture/Discussion

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 family day care, parent/provider relationships, problem solving, growth and development, discipline techniques, and avoidance of provider burnout. Formerly ECE 96B.

CHLD	SUPERVISE		1-3 UNITS
DEV 190a-d	PRACTICE		
Hours:	3 Lab per unit		

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 situation where the student is expected to take a leadership role with others. Formerly ECE 48a-c.

Prereaulsite: Permission of the department.

### CHILD DEVELOPMENT

1-4 UNIT

### DEV 199 DEVELOPMENT/ EARLY CHILDHOOD EDUCATION

**TOPICS IN CHILD** 

Hours: Variable

CHLD

Hours:

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.

### CHLD TOPICS IN CHILD DEV 299 DEVELOPMENT/ EARLY CHILDHOO

1-4 UNIT

## EARLY CHILDHOOD EDUCATION

Topics are specialized studies or projects that are especially designed by instructors and students to enrich the learning experience in a discipline. Credit in Topics 299 is nontransferable.



### .

CINEMA MOTION PICTURE ARTS 31 APPRECIATION Hours: 1 Lecture/Discussion 2 Lab 2 UNITS

2 UNITS

Explores the origin of motion picture production, objectives of various directors, actors and producers in their films, and technology and esthetic 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 31 offered only in fail semester. Covers the period from the beginning to the present with emphasis on American films. Formerly CINEMA ARTS 1.

### CINEMA MOTION PICTURE ART 32 APPRECIATION Hours: 1 Lecture/Discussion 2 Lab

An 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.

### COMPUTER

COMPUTER INTRODUCTION TO COMPUTER INFORMATION 5

**4 UNITS** 

SYSTEMS

Hours: 4 Lecture/Discussion

### 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. This course discusses the theory, concepts and terminology used in computer Information systems today. CAN BUS 6.

Recommended Prerequisite: Keyboarding capability of at least 20 cwpm.

### COMPUTER BASIC PROGRAMMING

**3 UNITS** 

Hours: 2 Lecture/Discussion 2 Lab

### Materials Fee: \$7.00

The class is designed to teach 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

**4 UNITS** 

#### Hours: **3 Lecture/Discussion** 2 Lab

### Materiais 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 flies, and on-line systems. Formerly BUS 7. 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

**3 UNITS** 

4 UNITS

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 files, 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** 

COMPUTER MICROCOMPUTER 132 Hours:

2 UNITS

### 2 Lecture/Discussion 1 Lab

Materials Fee: \$7.00

Computer 132 is a second semester lecture/lab 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

COMPUTER MICROCOMPUTER OPERATIONS: DATABASE 133

**4 UNITS** 

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: **3 UNITS** TELECOMMUNICATIONS 134

Hours: 3 Lecture/Discussion 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: Computer 131 or permission of the department.

COMPUTER	MICROCOMPUTER	<b>4 UNITS</b>	
135	OPERATIONS:		
	DESKTOP PUBLISHING FOR BUSINESS		
Hours:	4 Lecture/Discussion		

### 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.

### COMPUTER

**3 UNITS** 

**OPERATIONS: WORD** 136 **PROCESSING USING WORD PERFECT** Hours:

COMPUTER MICROCOMPUTER

3 Lecture/Discussion

### 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 **OPERATIONS: WORD** 137

**3 UNITS** 

**PROCESSING WITH WORDSTAR** Hours:

3 Lecture/Discussion

### 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 major and/or the word processing certificate Recommended Prerequisites: Business 160 or keyboard at 35 cwpm. Computer 131 or current enrollment recommended. Formerly BUS 65B.

COMPUT			<b>3 UNITS</b>
138	<b>OPERATIONS: SPREA</b>	DSHEET DESIGN	1
	FOR BUSINESS		
Hours:	3 Lecture/Discussion	1	
	3 Lab		

### Materials Fee: \$7.00

This course emphasizes the design, creation, and use of spreadsheets for business applications. Students will learn beginning to advanced features of microcomputer spreadsheets including: basic spreadsheet design and creation: beginning and advanced spreadsheet formatting; creating and using templates, macros, and tables; data entry and management; and presentation graphics, including report generation, creating and customizing graphs, and creating and running computer slide-shows. Lotus 1-2-3 or similar spreadsheet software will be used with an emphasis on business applications.

Recommended Prerequisite/Corequisites: Keyboarding speed of 20cwpm and microcomputer experience.

### COMPUTER

### COMPUTER 210 MICROCOMPUTER OPERATIONS: 3 UNITS COMPUTER ACCOUNTING

### Hours: 3 Lecture

This course will teach students to use computer-based accounting packages to handle the accounting procedures for a business. These packages are usually referred to as "General Ledger Accounting" packages. This course is an introduction to accounting applications software for accountants and business managers. Students will use standard accounting programs, including general ledger, accounts receivable/payable, payroll and inventory control. Students will survey current accounting applications for microcomputers. **Recommended Prerequisites:** 1) Accounting 201 and/or Accounting 1; 2) Satisfactory completion of a microcomputer class.

COMPUTER MICROCOMPUTER 302 OPERATIONS: INTRODUCTION TO WORDSTAR **1 UNIT** 

WORDSTAR 9 Lecture/Discussion }7 Lab (26 hr. Course)

Materials Fee: \$5.00

Hours:

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.

COMPUTER	MICROCOMPUTER	1 UNIT
304	OPERATION:	
,	INTRODUCTION TO THE SPREADSHEET	
Hours:	9 Lecture/Discussion	
	17 Lab (26 hr. Course)	
Materials F	ee: \$5.00	
	- tree of	

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.

COMPUTER	MICROCOMPUTER	1 UNIT
306	OPERATIONS: INTRODUCTION TO	
	WORDPERFECT	
Hours:	9 Lecture/Discussion	
	17 Lab (26 hr. Course)	

### Materials Fee: \$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

# COMPUTER FUNDAMENTALS 3 UNITS 351 OF KEYBOARDING AND COMPUTER SKILLS Hours: 3 Lecture/Discussion

Materials Fee: \$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 protocoi 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.

### CONSUMER/FAMILY STUDIES

### CFS 6 COLOR AND DESIGN Hours: 2 Lecture/Discussion 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 H EC 6A.

CFS 7 COLOR AND DESIGN Hours: 2 Lecture/Discussion 2 Lab

**3 UNITS** 

**3 UNITS** 

### 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 Prerequisite: CFS 6 or Art 6.

### CFS 80 LIFE SPAN DEVELOPMENT Hours: 3 Lecture/Discussion

**3 UNITS** 

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 H EC 38.

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### CONSUMER/FAMILY STUDIES

### CFS 126 MARRIAGE AND FAMILY LIFE 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. CAN H EC 12.

Recommended Prerequisite: Eligible for English 1.

### CFS 186 PERSONAL MANAGEMENT/ 3 UNITS CONSUMER ECONOMICS Hours: 3 Lecture/Discussion

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 190a-d SUPERVISED PRACTICE Hours: 3 Labs per unit

### 1-3 UNITS

**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. Formerly HEC 48a-c.

Prerequisite: Permission of the department.

### CFS 199 TOPICS IN 1-4 UNIT CONSUMER/FAMILY STUDIES

Hours: Variable 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.

### CFS 299 TOPICS IN CONSUMER/FAMILY STUDIES

1-4 UNIT

**Hours: Variable** Topics are specialized studies or projects that are especially designed by instructors and students to enrich the learning experience in a discipline. Credit in Topics 299 is nontransferable.

### CONSUMER/FAMILY STUDIES

### CFS 300 INTRODUCTION TO CONSUMER/ 3 UNITS 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

**12 UNITS** 

/ 12 UNITS

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 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 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 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 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 lab 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; 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 62. Prerequisite: Admission into the Cosmetology Program.



DAIRY	ELEMENTS OF	3 UNITS
SCI 101	DAIRYING	
Hours:	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 dairies in the local area. Formerly DAIRY SCI 1.

DAIRY	<b>PRINCIPLES OF</b>	3 UNITS
SCI 102 Hours:	MILK PRODUCTION 3 Lecture/Discussion	
noure.	1 Lab	·

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 cost rations for dairy cows. Formerly DAIRY SCI 2.

DAIRY	COMMERCIAL	3 UNITS
SCI 103	DAIRY HERD MANAGEMENT	
Hours:	3 Lecture/Discussion	
	1 Lab	
<u>Materiais</u>	Fee: \$5.00	
0	برابولو المراجع والمحموم المراجع والمرابع	

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 **10 UNITS** DAIRY **BREEDING AND** SCI 104 SELECTION OF DAIRY CATTLE Hours: 3 Lecture/Discussion 1 Lab Materials Fee: \$5.00 Dairy Science 104 is part of the Dairy Science curriculum at C.O.S. The course is designed to give students an understanding of selection techniques, anatomy, and physiology of dairy reproduction, and artificial insemination. Practical hands-on use of A.II. will be covered by all students. Formerly DAIRY SCI 4. DAIRY DAIRY CATTLE SELECTION, JUDGING 105a-d

AND SHOWING Hours: 1 Lecture/Discussion Hab

### Materials Fee: \$5.00

An introductory course in the selection of dairy cattle. It is designed to give students a basic understanding of how dairy cattle are selected based on body conformation and type. Students also have the option to compete on the local, state, and national level. Formerly DAIRY SCI 5a-d.

**3 UNITS** 

**1 UNIT** 

DAIRY	INTRODUCTION TO	<b>3 UNITS</b>
106a-b	DAIRY PRODUCTS TECHNOLOGY	
Hours:	3 Lecture/Discussion	
	llab	,

This course is designed to familiarize students with the dairy industry and its processes. Lab time is spent in local milk plants to afford the student first hand observation and proper mlik manufacturing procedures.

DAIRY	PRACTICAL SKILLS		1 UNIT	
107a-d	IN DAIRYING			
Hours:	4 Lab			
Dairy Scier	ice 107 is designed to	o give students a	chance to gal	n
	kills in dairy production			

he able to milk and feed cows on the COS Dairy or on other dairies with Instructor approval. Other skills learned will be feeding calves, fresh cow care, equipment repair, fitting and showing cattle and general dairy work.

DAIRY 108	DAIRY NUTRITION	3 UNITS
Hours:	3 Lecture/Discussion 1 Lab	

Dairy Science 108 is designed to give advanced dairy students an in-depth study of dairy cattle nutrition. Nutrient requirements of dairy cattle, commodity feeding, ration formulation and feeding systems will be discussed. Computer application of ration formulation will be used along with using spreadsheets to project feed Inventories and usage.

Recommended Prerequisites: Dairy Science 101 and 102.

DANCE

DANCE

DANCE BEGINNING BALLET 8a-d Hours: .5 Lecture /Discussio 1 UNIT

### rs: .5 Lecture/Discussion 1.5 Activity

This is a course designed for the beginning dance student to learn the basic principles of classical ballet technique. Barre wor, port de bras, and allegro work are also introduced. Formerly PE 81a-d.

DANCE 10 a-d	MODERN DANCE	1 UNIT
Hours:	.5 Lecture/Discussion	
,	1.5Activity	

This course is an introduction to the basic modern dance techniques. Emphasis is placed on the importance of breath, body alignment, rhythmic movement, and the exploration of movement through space, energy and time. Formerly PE 6ad.

DANCE	JAZZ DANCE	1 UNIT
12a-d		1
Hours:	.5 Lecture/Discussion	

1.5Activity

This course is designed for the beginning student to learn general principles of current trends and traditional forms of Jazz Dancing, using a ballet foundation. Formerly PE 80a-d.

## DANCE MUSICAL THEATER PERFORMANCE 2 UNITS 41g-d

Hours: 120 Total hours per semester

Cross Ref: Music 97 a-d, Theatre Arts 20 a-d

Experience dance, music, drama, and theater through active participation in a major musical production. Includes training and experience in all facets of the theater. Formerly PE 15a-d.

### DANCE 113a-b ADVANCED JAZZ DANCE 1 UNIT Hours: .5 Lecture/Discussion Per Week 1.5 Activity Per Week

An in-depth study of jazz dance technique, taught at an accelerated rate. Emphasis is on different individual styles and techniques and freedom of movement.

Recommended Prerequisites/Co-requisites: Dance 12 or department approval.

### DANCE 116a-b BEGINNING TAP DANCE 1 UNIT Hours: .5 Lecture/Discussion Per Week I.5 Activity Per Week

This course is designed for the beginning student in the study of tap dance techniques. Students will learn the art of making rhythmic sounds by the learned articulation of the feet.

### DANCE 306a-d DANCE CHOREOGRAPHY **1 UNIT** Hours: 2 Hrs/Week Activity Choreography is an introductory course in the study of elements and form of movement theorles as applied to the art of creating dance. Formerly PE 161-d. DRAFTING DRAFT 100 APPLIED DRAWING **3 UNITS** Hours: 3 Lecture/Discussion 3 Lab A study of the fundamentals of technical drawing and practical applications. Emphasis will be placed upon: sketches, lettering, orthographic projection, working drawings, auxiliary views, dimensioning, developments, threads and fasteners, sections, pictorial drawing, duplication, and the interrelationships of

each to manufacturing design. The course is recommended for all engineering and industrial technology students. The course is required in all draffing technology certificate and

degree programs.

**Recommended Prerequisite:** One year of high school draffing or Draffing 200. Formerly DRAFT 22.

### DRAFT 101 MANUFACTURING DESIGN GRAPHICS

Hours: 3 Lecture/Discussion 2 Lab **4 UNITS** 

This course involves advanced technical drawing applications and standards. Cams, gears, detail and assembly drawings, manufacturing processes, structural detailing, piping layout, dimensioning and tolerancing are emphasized in the solution of industrial design problems. This course is designed for those seeking the knowledge and skills associated with drafting technology, machine design and mechanical engineering. **Recommended Prereguiste:** Drafting 100. Formerly DRAFT 24.

### DRAFT 102 DESCRIPTIVE GEOMETRY Hours: 3 Lecture/Discussion 2 Lab

**3 UNITS** 

This course is a study of the fundamental theory, concepts and principles of spacial relationships. These are applied in the solution of three dimensional problems arising in various branches of engineering. Descriptive geometry is needed by everyone pursuing the knowledge and skills associated with architecture, construction, drafting, and engineering. Formerly DRAFT 23

**Prerequisite:** One year of high school mechanical drawing. DT 100 (Plane Geometry maybe taken concurrently).

### DRAFTING

#### DRAFT 103g-c INTRODUCTION TO COMPUTER **4** UNITS **ASSISTED CIVIL DRAFTING**

Hours: **3 Lecture/Discussion** 2 Lab

This course is designed to prepare the student for public and private industries that currently use CAD stations outfitted with Auto-CAD or Versa-CAD. It is a hands-on interactive CAD drafting course that will provide the student with advanced CAD skills especially as they relate to public works, subdivisions and various civil engineering drafting tasks.

Recommended Prerequisites: Completion of Drafting 110, 111, 201, 202, have used CAD systems in the industry, or department approval.

#### DRAFT 110 INTRODUCTION TO COMPUTER **4 UNITS ASSISTED DRAFTING** 3 Lecture/Discussion Hours: 2 Lab

An Introduction to the basic concepts, principles, and applications of a computer drive drafting system. The students will generate simple Industrial and architectural drawings with the computer system. This course will greatly benefit all students seeking the knowledge and skills for entry into architecture, construction, engineering, manufacturing, drafting, and computer applications. Formerly DRAFT 26A.

Recommended Prerequisites: A recent (within two years) drafting class or current employment as a drafter.

**4** UNITS

### 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: Drafting 110.

#### **DRAFT 120 INTRODUCTION TO COMPUTER 3 UNITS** ASSISTED ILLUSTRATION Hours: **3 Lecture/Discussion**

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. cavaller 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.

### DRAFTING

### DRAFT 121 COMPUTER ASSISTED 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.

#### DRAFT 130 INTRODUCTION TO **4 UNITS** COMPUTER ASSISTED CABINET DESIGN 3 Lecture/Discussion Hours:

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 3 Lecture/Discussion Hours: 2 Lab

**3 UNITS** 

**4 UNITS** 

A study 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	3 UNITS
	APPLICATION	
Hours:	3 Lecture/Discussion	
	2 Lab	
A study in t	he application of creative pro	blem solving skills and
knowloda	a in the graphic dealers field. Th	a studenta ull emple

d 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 communications. Formerly DRAFT 21B.

Recommended Prerequisite: Drafting 160.

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### DRAFTING

### DRAFT 200 BEGINNING MECHANICAL DRAWING

2 UNITS

Hours: 2 Lecture/Discussion 2 Lab

A rapid comprehensive coverage of the fundamentals of mechanical drawing and modern drafting practice. Including, but not confined 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.

DRAFT 201	CIVIL ENGINEERING	3 UNITS
	DRAFTING	
Hours:	2 Lecture/Discussion	
	2 Lab	

A class designed to prepare the participant to function effectively in a civil engineering office or department of public works within a city or county agency as a drafter. Formerly DRAFT 54A.

**Prerequisite:** A recent (within two years) drafting class or current employment as a drafter.

<b>DRAFT 202</b>	CIVIL ENGINEERING	3 UNITS
	DESIGN	
Hours:	2 Lecture/Discussion 2 Lab	

A class designed to prepare the participant to function effectively in a Civil Engineering office or department of public works within a city of county agency as a designer/drafter. **Prerequisite:** A recent (within two years) drafting class, Drafting 201 or current employment as a drafter. Formerly DRAFT 54B.



### ECON 1 PRINCIPLES OF ECONOMICS I Hours: 3 Lecture/Discussion

**3 UNITS** 

A study of the principles of national output, income, employment and prices. The subject matter includes an analysis of aggregate production, inflation, the banking system, and the application of fiscal and monetary policy. Macroeconomics also concerns itself with how the United States economy interacts with the rest of the world. Formerly ECONOMICS 1A. CAN ECON 2.

### ECON 2 PRINCIPLES OF ECONOMICS II 3 UNITS Hours: 3 Lecture/Discussion

Microeconomics: Principles and applications in the theory of producer and consumer behavior, and the distribution of payments as derived from output markets. Various market structures are reviewed and the role of government production, regulation, and involvement in firm decisions and consumer behavior are analyzed. Formerly ECONOMICS 1B. CAN ECON 4.

**Recommended Prerequisites:** Sophomore standing and high school algebra.

### ELECTRONICS

ELECT 101 DC CIRCUITS Hours: 4 Lecture/Discussion 4 Lab

**5 UNITS** 

### Materials Fee: \$5.00

This is the introductory class in the C.O.S. Electronics program. It offers training for students entering the electronics field. Includes lecture and laboratory instruction with DC circuits including mathematics, circuit analysis, use of test equipment, and soldering. A background in science is desirable. The initial course needed to obtain the F.C.C. general radio-telephone license or equivalent. (CAN-ECON 4)

**Recommended Prerequisite:** One semester of algebra with a grade of "C" or better, and concurrently enrolled or completed English 251. It is also recommended that the student be concurrently enrolled in Electronics 110. Formerly ELECT 1A.

ELECT 102 AC CIRCUITS Hours: 4 Lecture/Discussion 4 Lab **5 UNITS** 

### Materials Fee: \$5.00

This class offers continued training for students entering the electronics field and includes lecture and laboratory instruction with AC circuits including mathematics, circuit analysis, use of test equipment and soldering. It is the second semester of study for obtaining F.C.C. general radio-telephone license or its equivalent.

**Prerequisites:** Electronics 101 or an equivalent class with a grade of "C" or better. Formerly ELECT 1B.

### ELECT 103 ACTIVE DEVICES Hours: 4 Lecture/Discussion

**5 UNITS** 

### 4 Lab

Materials Fee: \$5.00

This is a course in the third of four semesters in the C.O.S. Electronics program. It offers training for student entering the field of electronics. Includes lecture and laboratory projects such as: solid state devices, power supplies, audio circuits, and use of test equipment for testing and trouble-shooting. The 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.

ELECT 104	COMMUNICATION CIRCUITS	5 UNITS
Hours:	4 Lecture/Discussion	
	Alab	

### Materials Fee: \$5.00

This is the fourth class in the COS Electronics program. It offers training for students seeking employment in electronic communications, including broadcasting and two-way 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 28.

**Prerequisites:** Must have completed Electronics 103 or equivalent with a grade of "C" or better.

### ELECTRONICS

ELECT 105 INDUSTRIAL FABRICATION AND 3 UNITS DESIGN

> 2 Lecture/Discussion 2 Lab

Hours:

### <u>Materials Fee: \$3.00</u>

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 107 TELEVISION/VCR REPAIR 3 UNITS Hours: 2.5 Lecture/Discussion 2.5 Lab

This class is designed to introduce the student to basic video systems including both television receivers and VCR's. It also includes theory of operation, hands-on laboratory projects and maintenance and trouble-shooting.

**Recommended Prerequisites/Co-requisites:** Currently enrolled in Electronics 103 or permission of the department or equivalent.

ELECT 108	ADVANCED VIDEO SYSTEM	<b>3 UNITS</b>
Hours:	2.5 Lecture/Discussion	•
	2.5 Lab	

### Materials Fee: \$3.00

This course is designed to enhance the students' knowledge and ability to trouble-shoot complex video systems. Includes advanced theory and trouble-shooting techniques for both television receivers, computer monitors, and VCR's.

**Prerequisites:** Must have completed Electronics 107 or permission of the department.

# ELECT 110 DIGITAL CIRCUITS 3 UNITS Hours: 2 Lecture/Discussion 2 Lab

This course offers the student a working knowledge of the 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.

### **ELECTRONICS**

### 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	4 UNITS
	APPLICATIONS	
Hours:	3 Lecture/Discussion	
	3 Lab	

### Materiais 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.

### ELECT 113 PC TROUBLE-SHOOTING/REPAIR 4 UNITS Hours: 3 Lecture/Discussion 3 Lab

### Materials Fee: \$4.00

This is 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

**3 UNITS** 

AMPLIFIER CIRCUITS Hours: 2 Lecture/Discussion 2 Lab

### 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.

### **ELECTRONICS**

ELECT 121 SOLID STATE DEVICES

**3 UNITS** 

**4 UNITS** 

1-3 UNITS

**AMPLIFIER CIRCUITS** Hours: 2 Lecture/Discussion

2 Lab

### Materials Fee: \$3.00

Electronics 121 is a lecture/laboratory course that is necessary for a career in all electronic fields. The student will learn the characteristics of the various solid state devices as well as becoming familiar with their parameters by laboratory experiments. This course is required for fulfilling an Associate Degree or certificate. Course includes communications electronics, industrial electronics, and microcomputer electronics.

Prerequisites: Electronic 101 and Electronics 102 or equivalent as approved by department.

ELECT 122	ACTIVE CIRCUITS	<b>3 UNITS</b>
Hours:	2 Lecture/Discussion	
	2 Lab	

### Materials Fee: \$3.00

This class introduces students to the application of solid state devices in active circuits. It includes the following lecture and laboratory projects: power supplies, VO. regulator, audio amplifiers and audio systems. Includes use of equipment for testing and trouble-shooting. This is a required class for a COS Electronics degree or certificate.

Prerequisites: Must have completed Electronics 101 and 102 or equivalent with a grade of "C" or better.

### EMERGENCY MEDICAL TECHNOLOGY

EMT 351 **EMERGENCY MEDICAL TECHNOLOGY** 3 Lecture/Discussion

Hours:

### 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 Inlury and proper procedures of emergency care. This course meets the reguligements 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**

COMPUTATION ESKL

### 601a-d 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.

## COURSE DESCRIPTIONS

### **ENABLER SKILLS**

1-3 UNITS

602a-d Hours: 3-9 lab

**EXPRESSION** 

ESKL

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.

#### ESKL **DECODING/LANGUAGE** 1-3 UNITS 603a-d

Hours: 3-9 Lecture/Discussion

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.

#### ESKL ORGANIZATION 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 secluded, gulet 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.

#### 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.

1-3 UNITS

### ENABLER SKILLS

ESKL ADAPTED COMPUTER TECHNOLOGY 1-3 UNITS 610a-d Hours: 1-3 Lecture/Discussion

2-6 Lab

Students with various disabilities will acquire and implement basic computer skills with personalized adapted computer technologies to perform tasks required in personal, educational or occupational applications. Supplemental instruction provided in this course coupled with adapted hardware and software will strengthen and enhance the development of skills for the disabled.

Prerequisite: Eligible disability.

### ENGINEERING

ENGR 1 GRAPHICS 3 UNITS Hours: 3 Lecture/Discussion 3 Lab

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, cuts and development of surfaces, regions of outcrop, cuts and fills, twoand 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 UNITS Hours: 3 Lecture/Discussion

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:	<b>3 Lecture/Discussion</b>	
	1 Lab	

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.

### 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 alvision 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 transient. Formerly ENGINEER 5D. **Prereguisites:** Completion of ENGINEER 3 **Co-requisite:** Physics

7 and Math 8.

### ENGR 7 SURVEYING Hours: 2 Lecture/Discussion 3 Lab

**3 UNITS** 

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 1 COLLEGE READING AND COMPOSITION Hours: 3 Lecture/Discussion

**3 UNITS** 

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.

**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.

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ENGLISH

### ENGLISH

### ENGLISH 1H READING AND

**4** UNITS

**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 arammatical correctness is assumed. English 1 Honors differs from standard English 1 in that students must be accepted into the Honors Program and will enroll concurrently in a one unit collogulum which meets once per week and which culminates In an appropriate semester project.

Prerequisite: English 1. Acceptance into the Honors Program.

#### ENGLISH 2 LOGIC AND COMPOSITION Hours: **3 Lecture/Discussion**

**3 UNITS** 

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.

Prerequisite: 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

writting. Formerly ENGLISH 20. CAN ENGL 4. Preregulsite: English 1.

#### **ENGLISH 10 CHICANO LITERATURE** 3 Lecture/Discussion Hours:

**3 UNITS** 

An Interpretive analysis of Chicano literature from its origins to its contemporary status. Poetry, short stories, 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 Renaissance 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.

### Prerequisite: English 1.

### ENGLISH 15 SURVEY OF BRITISH LITERATURE 1

3 Lecture/Discussion Hours:

A survey of English literary history as revealed through an intensive study of some major authors and their typical masterpleces from Beowulf through the period of the Restoration, Formerly ENGLISH 5, CAN ENGL 8. Prerequisite: English 1.

### ENGLISH 16 SURVEY OF BRITISH **LITERATURE 2**

**3 UNITS** 

**3 UNITS** 

#### 3 Lecture/Discussion Hours:

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 ENGL 10. Prerequisite: English 1. Note: English 15 is not a requisite for English 16.

#### 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.

Pregulsite: English 1.

#### ENGLISH 19 WOMEN IN LITERATURE 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.

Prerequisite: English 1.

### ENGLISH 30 U.S.

**3 UNITS** 

#### **UTERATURE 1** 3 Lecture/Discussion Hours

A broad, general, chronological survey of the literature of the United States and an analysis of major literary works. This seament of the course considers literature written in the United States from the Civil War to the present. Prereguisites: English 1. CAN ENGL 14.

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### ENGLISH

ENGLISH 31 U.S. LITERATURE 2 **3 UNITS** ENGLISH **3 Lecture/Discussion** Hours: 114a-b A broad, general, chronological survey of the literature of the Hours: United States and an analysis of major literary works. This segment of the course considers literature written in the United States from the Civil War to the present. Prerequisite: English 1. CAN ENGL 16 **3 UNITS** ENGLISH 32 THE BIBLE AS ENGLISH 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. Preregulsite: English 1. Hours: **ENGLISH 44 WORLD LITERATURE 3 UNITS 3 Lecture/Discussion** Hours: A study of early world masterpieces of the world's literature beginning with Greek and Roman works and concluding with the literature of the Renaissance. Through reading, discussion and writing, many works are studied to explore the richness of diverse cultural traditions. Prerequisite: English 1. ENGLISH 45 WORLD LITERATURE **3 UNITS** Hours: **3 Lecture/Discussion** A study of world literature from the enlightenment to the modern period. Through reading, discussion and writing, many works are studied to explore the richness of diverse cultural traditions Prereauisite: English 1, College Reading and 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 scenes 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

emotions as well as to the intellect.

Preregulsite: English 1.

as living theater which should appeal to the ear and the

CREATIVE WRITING

### NGLISH CREATIVE WRITING 14a-b

lours: 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.

ENGLISH

CAN ENGL 6, Includes 114a or 114b.

**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** 

**3 UNITS** 

**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. 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 a grade of "C" or better in English 360 or recommendation through departmental evaluation.

### ENGLISH 253 READING FOR ENRICHMENT 3 UNITS Hours: 3 Lecture/Discussion

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 365a-b DEVELOPMENTAL READING Hours: 3 Lecture/Discussion 1 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 Prerequisites:** 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

ENGLISH WRITING, READING, STUDY SKILLS 6 UNITS 360

### Hours: 6 Lecture/Discussion 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	<b>READING IMPROVEMENT</b>	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 370	BASIC ENGLISH SKILLS	6 UNITS
Hours:	6 Lecture/Discussion	
	1 Lab	
Basic Eng	lish skills is the first course in a	developme

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	ENGLISH AS A SECOND	8 UNITS
381	LANGUAGE, BEGINNING LEVEL 1	
Hours:	7 Lecture/Discussion	
	31ab	

A beginning English as a Second Language class for students who want to learn to speak, read, and write English. Formerly ENGLISH 70A.

### ENGLISH

**8 UNITS** 

**8 UNITS** 

8 UNITS

ENGLISH	ENGLISH AS A SECOND
382	LANGUAGE,
	<b>BEGINNING LEVEL 2</b>
Hours:	7 Lecture/Discussion
	3 Lab

A beginning English as a Second Language class for students who want to learn to speak, read, and write English. Formerly ENGLISH 70B.

**Recommended Prerequisites:** Students entering this class should have completed English 381.

ENGLISH	ENGLISH AS A	
383	SECOND LANGUAGE,	
	INTERMEDIATE LEVEL 1	
Hours:	7 Lecture/Discussion	
	3 Lab	

An Intermediate English as a Second Language class for students who want to speak, read, and write English. Formerly ENGLISH 71A.

**Recommended Prerequisites:** 1) Completion of English 382 with "C" or better, or 2) Appropriate test score on ESL Placement Test.

ENGLISH	ENGLISH AS A
384	SECOND LANGUAGE,
	INTERMEDIATE LEVEL 2
Hours:	7 Lecture/Discussion
	3 Lab

An Intermediate English as a Second Language class for students who want to learn to speak, read, and write English. Formerly ENGLISH 71B.

**Recommended Prerequisites:** 1) Completion of English 383 with "C" or better, or 2) appropriate test score on ESL Placement Test.

ENGLISH 385	ADVANCED ENGLISH FOR BICULTURAL STUDENTS, LEVEL I	8 UNITS
Hours:	7 Lecture/Discussion	
	1 l ab	

English 385 is the Level I advanced English class for Bicultural students who want to improve their reading, writing, listening, and speaking skills. Students entering this class should have: 1) Completed English 384 with a minimum grade of "C" or; 2) Earned an appropriate score on ESL Placement Test.

**Recommended Prerequisites:** Advanced Level 1 studentsmust meet one of the following criteria: 1) Completion of English 384 with a grade of "C" or better; 2) Appropriate test score on ESL Placement Test.

## ENGLISH

# ENGLISH ADVANCED ENGLISH 6 UNITS 386 FOR BICULTURAL STUDENTS, LEVEL 2 Hours: 6 Lecture/Discussion 1 Lab

English 386 is the Level 2 advanced English class for Bicultural students who want to Improve their English reading and writing skills. Students entering this class should have: 1) Completed English 385 with a minimum of "C" or 2: Earned an appropriate score on ESL Placement Test.

**Recommended Prerequisites:** Advanced Level 2 students must meet one of the following criteria: 1) Completion of English 385 with "C" or better; 2) Appropriate test score on ESL Placement Test.

ENGLISH 401 a-d Hours:	NOSTALGIC AND REMINISCENT WRITING Per class - 3 Per week - 3 (One week course)	0 UNITS
	(One week course)	

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A course in writting based upon personal experiences. Members of the class are encouraged to produce short autoblographical, reminiscent, or nostalgic sketches. Samples of such life-reviewing writtings will be available if students choose to read them, but emphasis will be on discussion of what students choose to write about themselves. This course is intended primarily for the senior citizen. Formerly ENGLISH 16a-d.

## ENVIRONMENTAL CONTROL TECHNOLOGY

ECT 180 ELECTRICITY AND CONTROL 4 UNITS FOR HVAC Hours: 4 Lecture/Discussion 2 Lab

This course covers basic electricity, electrical circuits and schematics, controls and components for the HVAC/ Refrigeration field. The students will learn how to read schematics and various meters used in our field, how to electrically wire, trouble-shoot and diagnose electrical problems in various types of heating and cooling units.

**Recommended prerequisites:** I&T 351; Recommended coregulsite: I&T181.

ECT 181	BASIC AIR CONDITIONING	8 UNITS
Hours:	7 Lecture/Discussion	
	7 Lab	

## Materials Fee: \$10.00

An introductory lecture and demonstration course in residential air conditioning, refrigeration and heating that covers applied electrical and refrigeration theory, including how to evacuate and charge systems, use electrical meters to trouble shoot and diagnose electrical problems and how to properly install an entire duct system in the project house. In addition, proper brazing techniques, tools and safety practices are taught as applied to various other trades. Formerly AIR COND 80A. **Recommended Prerequisite:** Math 210.

## ENVIRONMENTAL CONTROL TECHNOLOGY

## ECT 182 ADVANCED AIR 1 2 UNITS CONDITIONING - COMMERCIAL AND DOMESTIC Hours: 10 Lecture/Discussion

### 10 Lab Materials Fee: \$10.00

An advanced course offered in environmental control technology that covers commercial and domestic air conditioning and refrigeration theory. Topics include practical wiring circuits and diagnosing of electrical problems found in both commercial and domestic applications and residential and commercial heat load calculations necessary in sizing of equipment. This course provides essential knowledge for a student seeking future advancement in his or her career. Formerly AIR COND 80B.

Recommended Prerequisite: ECT 181.

### ECT 200 INTRODUCTION TO INDUSTRIAL 3 UNITS AMMONIA REFRIGERATION Hours: 3 Lecture/Discussion

Introduction to industrial Ammonia Refrigeration is 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" (Engineer level) certification.

**Recommended Prerequisite:** ECT 260 or 181 or past or presently employed by an Industrial ammonia facility.

## ECT 201 ADVANCED AMMONIA 3 UNITS REFRIGERATION Hours: 3 Lecture/Discussion

This class is the natural extension of the introduction to Ammonia Refrigeration (ECT 200). Specific topics of safety, maintenance, installation, trouble shooting, extensive examination of piping design and systems, code compliance, and operation related to the industrial refrigeration systems utilizing ammonia as the refrigerant. The student will further his understanding of industrial refrigeration and should, upon completion of this course series, depending upon years of experience, be able to achieve the operator "A" certification (Engineer level) through RETA. **Recommended Prerequisite:** ECT 200 or past or current

**Recommended Prerequisite:** ECT 200 or past or current employment by an industrial ammonia facility.

## ECT 260 BASIC REFRIGERATION 2 UNITS Hours: 2 Lecture/Discussion

An introductory course in residential air conditioning and refrigeration that covers applied electrical and refrigeration theory. The students will learn how to use electrical meters to trouble-shoot and diagnose electrical problems. In addition, proper brazing techniques, tools and safety practices are taught as applied to various other trades. Formerly REFRIG 61.

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## ENVIRONMENTAL CONTROL TECHNOLOGY

### ECT 261 INTRODUCTION TO AIR 2 UNITS CONDITIONING & REFRIGERATION -COMMERCIAL & DOMESTIC Hours: 2 Lecture/Discussion 1 Lab

This is an introductory 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 60. **Recommended Prerequisites:** ECT 260 or equivalent training/ experience.

ECT 262	HEATING SYSTEMS AND CONTROLS	2 UNITS	
Hours:	2 Lecture/Discussion 1 Lab		·

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 that introduces commercial refrigeration. The course covers theory, design, controls, and operation of modern day commercial refrigeration systems. The students 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. **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.

## **COURSE DESCRIPTIONS**

## 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" (Engineer level) certification. Formerly REFRIG 90.

**Recommended Prerequisite:** ECT 260 or 181 or past/presently employed by an industrial ammonia facility.

FASHION

F



**3 UNITS** 

**3 UNITS** 

### Hours: 3 Lecture/Discussion 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 112a-b	COSTUMING	3 UNITS
Hours:	2 Lecture/Discussion	
	4 Lab	,
	2 Activity	
CROSS R	EF: 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, wardrobé plotting, and historical styles. Additional hours required to work on crews for college Theatre Arts and Dance productions.

FASH 117a-b	MAKEUP	
Hours:	2 Lecture/ Discussion	
	4 Lab	
	2 Activity	
CDOSS DE	E Theatre Arts 117a-b	

### 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.

## **3 UNITS**

Cou	IRSE DESCRI	PTIONS -			
	FASHION			FASHION	
to comple garment fit knit fabrics sewers. Op	CLOTHING CONSTRUCTION 2 Lecture/Discussion 3 Lab the principles of clothing constr ted garment. Emphasis on for and various construction techni c. Designed for both beginner ben to all interested students. F 10 Includes 160a only.	abric performance, Iquesforwovenand is and experienced	and invest given to v valuable for the studer possibilities <b>Prerequisi</b>	ADVANCED COLOR THEORY 2 Lecture/Discussion 1 Lab ced color theory course expands igates color uses in areas of stud visual testing, research and de or planning a color related care to examine community and re- s, Formerly HEC 5B. tes: Fashion 167 and Consu- nt Interview.	dent interest. Time is evelopment of skills eer. Field work helps glonal employment
including o jacket Er	TAILORING 2 Lecture/Discussion 3 Lab traditional and contemporary t construction of a man's or we nphasis on garment fit, qualit ection. Open to all interested	oman's coat or suit y construction and	An introdu models ar basic fas preparation technique in a fashior	MODELING 3 Lecture/Discussion : Theater Arts 170 uction to the modeling Indust ad agencies. Instruction will ind hion and photographic tec on; stage and photographic s; posture, gesture and movement production. Students will also an lifet, nutrition and exercise, skin	clude experience in hiniques; portfolio makeup; runway ent and participation nalyze and evaluate
technique garments. especially for themsel or who have	CREATIVE PATTERN DESIGN 2 Lecture/ Discussion 3 Lab urse in apparel design through th s. Includes the design, draffing, Open to all students interested fashion majors, those who are ives and others, who may teach ve fitting problems. Formerly 23 nded Prerequisites: Clothing con	and construction of d in clothing design, interested in sewing in the clothing area BA.	Fundamer fashlonide rendering student wit	FASHION ILLUSTRATION 2 Lecture/Discussion 1 Lab 5 Art 174a-b htals of fashion Illustration, includid bals; drawing fashion proportioned garment details, fabrics and acc in fashion publications; preparing zing drawings, and matting drawing IEC 25a-b.	ed figures and faces, essories; familiarizing giliustration including
flat patter construction	ADVANCED PATTERN DESIGN 6 Lab ced lab course in apparel desig n techniques. Includes the d on of garments. Formerly HEC 2 nded Prerequisite: Fash 162 or	esign, drafting and 3B.	merchanc the fashlo appropria selection demonstro	FASHION IMAGE 3 Lecture/Discussion luctory course which offers dising major and the non-major, o n world and discovering image te for various lifestyles. Stud suited to the male and ferr ate personal selection skills base sonal image projection, color e	a means of exploring ge dressing which is lents study clothing hale physique and id upon assessments
environme merchand color perc color nome developing choices. A	APPLIED COLOR THEORY 2 Lecture/Discussion 1 Lab color and Its relationships to li ints including interior design, ising, floral design, etc. Contemp eptions, color matching, and the enclature are included. Project g a sensitive and discriminating of itention is given to the selection ite. Formerly HEC 5A.	advertising, fashlon porary color theories, e development of a s assist the student in eye for making color	analysis. S make bas grooming	Skills and topics include the use ic wardrobe plans, nutrition ma g alds, clothing maintenanc is. Formerly HEC 20. CAN H EC	e of art principles to inagement, applied ce, and shopping

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## 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

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 179ORIGINS OF FASHIONHours:3 Lecture/Discussion

3 Lab

3 UNITS

1-3 UNIT

This course is a study of the history of apparel and accessories. It includes the analysis of historical fashion cycles, cultural factors in dress and the relationship of social class, economics, government and religion to clothing and dress. This is a required course for fashion merchandising, fashion design, and color/ image consulting vocational certificates, and the AA degree in Consumer/Family Studies with a fashion merchandising major.

## FASH 190SUPERVISED PRACTICEHours:3 Labs per Unit

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.

FASH 199	TOPICS IN	1-4 UNIT
	FASHION	
	Manufachata.	

## Hours: Variable

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.

## FASHION

FASH 260 CAREER DRESSING Hours: 1 Lecture/Discussion CROSS REF: Bus 260

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 299 TOPICS IN FASHION

## Hours: Variable

Topics are specialized studies or projects that are especially designed by instructors and students to enrich the learning experience in a discipline. Credit in Topics 299 is nontransferable.

## FASH PRINCIPLES 2 UNITS 360a-d OF CLOTHING CONSTRUCTION Hours: 3 Lab 3 Lab 1

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: 1 Lecture/Discussion

**1 UNIT** 

**3 UNITS** 

**1 UNIT** 

1-4 UNIT

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 FIRE 152 INVESTIGATION 1A Hours: Short Term Course 40 Lecture/Discussion

Fire investigation 1A is designed for students who are currently employed in a fire service area and are interested in advancing their career into the area of investigation. Students will study the techniques of fire scene investigation, fire indicators and fire behavior. The course will also expose students to arson laws, writing documentation and insurance reports. This course will apply toward investigator certification by the California State Fire Marshal's Office.

**Recommended Prerequisites/Co-requisites:** Currently employed in the fire service area.

183

## **FIRE TECHNOLOGY**

FIRE TEC FUNDAMENTALS 154 OF FIRE SERVICE OPERATIONS Hours: 3 Lecture/Discussion Provides the student with the fundamentals of organization, management, and resources, the use of those resources to control variou Formerly FIRE SCI 54.	and emphasizes us emergencies.	the history operation identification of fire preve suppression	S.F.M. FIRE PREVENTION 1A 40 Lecture/Discussion recourse provides fundamental and philosophy of fire prevent of a fire prevention bureat on and correction of fire hazar ention with fire safety education in systems. Formerly FIRE SCI est: Fire Tech 1, concurrent entity	tion, organization and u, use of fire codes, ds, and the relationship lon and detection and 60A.
FIRE TEC FUNDAMENTALS 155 OF FIRE PROTECTION CHEMISTRY Hours: 3 Lecture/Discussion Provides the student with fundamental in knowledge of the physical and chemical a matter, fire, hazardous materials, and basic	haracteristics of	FIRE TEC 162 Hours:	S.F.M. FIRE PREVENTION 1B	2 UNITS
FIRE TEC FIRE SERVICE HYDRAULICS	3 UNITS	This40-hou of fire preve bureau, us hazards, a	40 Lecture/Discussion r course provides information r ention, organization and operc e of fire codes, identification nd the relationship of fire pre- and detection and suppressio	ation of a fire prevention and correction of fire vention with fire safety
156 Hours: 3 Lecture/Discussion This is a fire suppression class which studies the at rest; in motion, under pressure and engineer formulas and mental calculations dealing	ring principles of with hydraulic	SCI 60B. <b>Prerequisit</b> e	es: Fire Technology 161.	
problems as related to the fire service industry. 56. <b>Prerequisites:</b> Fire Tec 154 and Fire Tec 159.	Formerly FIRE SCI	science m	WILDLAND FIRE CONTROL 3 Lecture/Discussion lesigned to provide the emp ajor with a fundamental kno wildiand fire prevention, fire	wiedge of the factors
FIRE TEC     FUNDAMENTALS       157     OF FIRE PREVENTION       Hours:     3 Lecture/Discussion       Provides fundamental information regarding	3 UNITS	technique	s. Formerly FIRE SCI 66. es: Completion of Fire Scienc	-
philosophy of fire prevention, organization an fire prevention bureau, use of fire codes, ld correction of fire hazards, and the relationship with fire safety education and detection systems. Formerly FIRE SCI 57.	d operation of a entification and of fire prevention	service org and regul	BASIC FIREFIGHTER I ACADEMY 110 Lecture/Discussion 132 Lab ve and technical training in panization and theories of fire ations affecting the fire se	control, including laws rvice personnel, and
FIRE TEC INTRODUCTION TO	3 UNITS	basic cons SCI 70. <b>Recomme</b>	ire organizations; principies o Ideration in fire strategy and <b>nded Prerequisite</b> : Currenly aff	tactics. Formerly FIRE
159 FIRE TECHNOLOGY Hours: 3 Lecture/Discussion Provides an introduction to fire protection; care in fire protection and related fields; philosoph fire protection; fire loss analysis; organization public and private fire protection services; fire part of local government; laws and regulatic fire service; fire service nomenclature; specifi functions; basic fire chemistry and physics; int protection systems; introduction to fire strate Formerly FIRE SCI 59.	hy and history of and function of departments as ons affecting the ic fire protection froduction to fire	having trai course dec supplemer developm managing	S.F.M. FIRE INSTRUCTOR 1A 40 Lecture/Discussion ar course is recommended for ning responsibilities within the als with such topics as: terms p itary instruction sheets; conce ent; lesson development; pla instructional activities; tea alds as they relate to teach	ir fire department. This ertaining to instruction; epts of learning; course inning, organizing and aching methods and

1

FIRE TECHNOLOGY

skills and technical information in the fire service. Formerly FIRE

SCI 71A.

## FIRE TECHNOLOGY

#### FIRE TEC S.F.M. FIRE INSTRUCTOR 1B 172

## 2 UNITS

#### Hours: 40 Lecture/Discussion

This 40-hour course is recommended for Fire Service personnel having training responsibilities within their fire department. This course 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 SCI 71B.

Prerequisite: Fire Science 171.

#### FIRE TEC FIRE COMMAND 1A 173

2 UNITS

#### 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 requirements of the California State Fire Marshal's Office. Formerly FIRE SCI 72A. Prerequisites: Full-time employee of a fire department and completion of Fire Tec 154, or equivalent experience.

#### FIRE TEC FIRE COMMAND 1B 174

2 UNITS

2 UNITS

#### 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 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 quickly 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.

## FIRE TECHNOLOGY

#### FIRE TEC S.F.M. - NON AMBULANCE EMT **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 requirements 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

#### DISCIPLINE FOSTER C 400

**O UNITS** 

#### Hours: Course totals 16 lecture 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 WORKING WITH THE SYSTEM **O UNITS** C 401

#### Hours: Course totals 16 lecture hours

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 DISRUPTIVE C 402 BEHAVIOR

Hours: Course totals 16 lecture hours.

A study of disruptive behaviors including lying, stealing, aggressiveness 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 **CR 403** ABUSE Hours:

## Course totals 12 lecture 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.

**O UNITS** 

**O UNITS** 

## FOSTER CARE

Content in social work health nee	SPECIAL NEEDS Course totals 16 lecture hours health problems as related to cludes information to enable the err to identify and manage the dsresulting from abuse, neglect, ent and genetic defects. Forme	e foster parent and child with special abnormal prenatal	FRENCH 1 ELEMENTARY FRENCH 1 Hours: 4 Lecture/Discussion This course is committed to the use of Fre cultural aspects as the medium of instructio skills of understanding, speaking, reading an first semester course in a series of four. It introd to the French sentence patterns and words basic everyday topics, activities, and culture	n and to the four ad writing. It is the duces the student that are found in
16-18. This teacherroi skills during	ADULT INDEPENDENT LIVING Course totals 28 lecture hours independent living for foster pare s course helps foster parents of e model to aid youths in learning their last one or two years in irrn to assess skills and plan for sk	levelop a mentor/ Independent living foster care. Foster	FRENCH 2 ELEMENTARY FRENCH 2 Hours: 4 Lecture/Discussion This course is committed to the use of Fre cultural aspects as the medium or instructio skills of understanding, speaking, reading an second semester course in a series of four. I and broadens the student knowledge of top culture of the French speaking world. Perquisites: French 1 or two years of high permission of department.	n and to the four ad writing. It is the t also strengthens blcs, activities and
who need (emancipo skills, deve preparatio period. The	YOUTH INDEPENDENT LIVING Course totals 28 lecture hours independent living for foster you skills to leave foster care and ited). The course helps develop lop goals, develop a plan ar n for a very difficult, ambivate e foster parents of these youths facilitate this process.	d live on their own the ability to assess ad develop skills in ent developmental	FRENCH 3 INTERMEDIATE FRENCH Hours: 4 Lecture/Discussion This course is the third semester course in a conducted in French. It is committed to the communicative skills in a cultural context. I and writing skills are strengthened by the exp analysis of contemporary texts and French Recommended Prerequisites: French 2 or th school French or permission of the department	e development of Reading, listening posure to and the n media sources. hree years of high
The course system, fos FOSTER CR 408 Hours: An overvie foster pare children liv	CHILD ABUSE Course totals 16 lecture hours hild abuse for foster parents and will include causes, detection ter parent roles and prevention FOSTER PARENT- CHILD HEALTH ISSUES Course totals 12 lecture hours w course in children's health issu ints with the information needed ing in their homes. This course ally aware of their contribution	n, treatment, legal • • • • • • • • • • • • • • • • • • •	FRENCH 4 ADVANCED FRENCH Hours: 4 Lecture/Discussion French 4 is the fourth course in a series of conducted in French. The development and of conversational skills are stressed within cult morphology and the syntax of the French lang In detail. Writing practice is intensive contemporary culturo-socio-economical asp society. An overview of French literary genr	the acceleration ural contexts. The guage are studied and related to bects of the French
being of th	e children in their care. Topics w and children's health problem	/III cover preventive	FRENCH 350 CONVERSATIONAL FRENCH I Hours: 3 Lecture/Discussion This is the first conversational French course I for the student interested in specified the	

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. Verybasic grammar points will be touched upon. Formerly FRENCH 50.

FRENCH

CR 409

Hours:

SUPPORT SERVICES

Course totals 12 lecture hours

This course is designed to acquaint foster parents with the

community services that are available to aid them with the care of their foster children with special needs. The course will cover accessing services as well as how to become an active participant in the planning and implementation of services.

## FRENCH

#### FRENCH 351 CONVERSATIONAL FRENCH II **3 UNITS** 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.

Prerequisite: Conversational Level I.

#### FRENCH 352 CONVERSATION FRENCH III **3 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**

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 skills. Basic grammar points will be introduced as necessary for clear communication.

Recommended Prerequisites: Conversational Level III or permission of department.





#### GEOG 1 PHYSICAL GEOGRAPHY Hours: **3 Lecture/Discussion**

### **3 UNITS**

351

An investigation and interpretation of weather, climate, vegetation, solls, 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.

#### 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.

## GEOGRAPHY

GEOG 3 CULTURAL GEOGRAPHY Hours: **3 Lecture/Discussion** 

### **3 UNITS**

**4 UNITS** 

.5 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. CAN GEOG 4

Recommended Prereguisites: Eligible for English 1.



#### **GEOLOGY 1 PHYSICAL GEOLOGY** 3 Lecture/Discussion Hours: 3 Lab

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

**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 Visalia 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 BETWEEN VISALIA AND THE CENTRAL** 352 **CALIFORNIA COAST** Hours: **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 Marla to Cambria. 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 50B. Prerequisite: Concurrent enrollment in Geology 1 or Geology 12.



#### **GERMAN 350 CONVERSATIONAL GERMAN** 2 UNITS Hours: 3 Lecture/Discussion

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 and 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 **3 Lecture/Discussion** Hours:

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.



## THE HISTORY OF WESTERN

HIST 4 **CIVILIZATION TO 1648** Hours 3 Lecture/Discussion

**3 UNITS** 

**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.

HISTORY

Recommended Prerequisites: Eligibility for English 1.

#### HIST 5 THE HISTORY OF WESTERN **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.

Recommended Prerequisites: Eligibility for English 1 and completion of History 4.

#### HIST 17 THE PEOPLE OF THE UNITED STATES **3 UNITS** Hours: **3 Lecture/Discussion**

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** Hours: 3 Lecture/Discussion

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.

## Course descriptions

## HISTORY

#### AMERICAN HISTORY THROUGH HIST 18H **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.

#### HIST 20 THE PEOPLE OF LATIN **3 UNITS** AMERICA IN THE 19TH & 20TH CENTURIES

#### **3 Lecture/Discussion** Hours:

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.

#### HIST 21 THE PEOPLE OF MEXICO 3 Lecture/Discussion Hours.

### **3 UNITS**

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.

#### HIST 23 **MEXICAN AMERICAN HISTORY 3 UNITS** 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: Eligible for English 1.

## HISTORY

#### HIST 31 THE PEOPLE OF CALIFORNIA Hours: **3 Lecture/Discussion**

### **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 THE GREEK WORLD 1H

**4 UNITS** 

**3 UNITS** 

#### 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.

Prereguisite: 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.

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## HUMAN DEVELOPMENT

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

Recommended Prerequisites: Completion of Psych 1 and English

HUM PEER COUNSELING 3 UNITS DEV 122a-d

Hours: 2 Lecture/Discussion

**2 Lab** Human Development 22 focuses on interpersonal

DEVELOP 22a.

251.

HUMSUMMER COLLEGEDEV 358READINESS PROGRAMHours:96 Total Course Hours

**6 UNITS** 

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 DEVELOPMENT

## HUM TUTOR TRAINING 0 UNITS DEV 423 Hours: 3 Class Sessions

Non-credit and No Grade Received

This course is for students who have demonstrated mastery of content in one or more college courses and are eligible to serve as tutors. This course is designed to develop basic skills needed to function successfully as a tutor.

## HUM SUPERVISED TUTORING 0 UNITS DEV 424

## Hours: Up to 2 Hours per week per subject Non-credit and No Grade Received

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.

## HUMAN SERVICES

# HUM SERINTRODUCTION120TO SOCIAL WELFAREHours:3 Lecture/Discussion

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.

**4 UNITS** 

**3 UNITS** 

121 Hours:

HUM SER

3 Lecture/Discussion 2 Lab

INTERVIEWING

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 CAREER 1 UNIT DEV 251a-c AWARENESS Hours: 2 Lecture/Discussion

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.

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### 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 HUMÁN 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.

## • Course descriptions

## HUMAN SERVICES

HUM SERINTRODUCTION122OF HUMAN SERVICESHours:3 Lecture/Discussion

3 UNITS

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	
Hours:	2 Lecture/Discussion	

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.

HUM SER	PHYSICAL AND PSYCHOLOGICAL	3 UNITS
229	ASPECTS OF DRUG USE	
Hours:	3 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.

INDUSTRY AND TECHNOLOGY

 I & T 110
 BASIC MACHINING
 3 UNITS

 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 I&T 10A. **Recommended Prerequisites:** Drafting 100 and 101. Permission of the department.

1&T111	MACHINING - MANUFACTURING	3 UNITS
Hours:	PROCESSES 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:** I&T 110 and Drafting 100.

## INDUSTRY AND TECHNOLOGY

## I & T 120 INTRODUCTION TO HAZARDOUS 3 UNITS MATERIALS & SAFETY TECHNOLOGY

Hours: 3 Lecture/Discussion

An introduction to the overall scope of Hazardous Materials Technology. Emphasizes legal definitions, terminology, and regulatory framework. Included is historical background, career opportunities, governmental processes, and an overview of major hazardous materials handling and management procedures and requirements.

I & T 130 HAZARDOUS MATERIALS AWARENESS 1.5 UNITS AND SAFETY Hours: Short Term Course - 7 Weeks

## 3.5 Lecture/Discussion per week for a total of 24 hours.

Health and Safety aspects of working with hazardous materials. Emphasizes recognition of hazardous materials and the nature of worksite hazards. Included is a study of hazard classifications, laws and regulations applying to worker health and safety, types of health effects, personal protective equipment, risk reduction processes, and health and safety planning processes. Course is designed to meet general requirements of OSHA Hazardous Materials Training for work not requiring the use of respiratory protection.

### I & T 140 GENERAL METALWORKING Hours: 2 Lecture/Discussion 4 Lab

## **3 UNITS**

**3 UNITS** 

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.

## I & T 142 AIR CONDITIONING SHEET METAL Hours: 3 Lecture/Discussion

3 Lab 3 Activity

General sheet metal work including bending, 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.

## INDUSTRY AND TECHNOLOGY

### I & T 143 ADVANCED AIR 3 UNITS CONDITIONING DUCT SHEET METAL Hours: 2 Lecture/Discussion 4 Lab

Training in the layout, fabrication, and installation of sheet metal fittings used in heating and air conditioning (coolingheating) duct systems and kitchen equipment. Development of triangulation and true length line layout and fabrication. Formerly I&T 42.

Recommended Prerequisite: 1&T 142.

# I & T 143 ADVANCED AIR 3 UNITS CONDITIONING DUCT SHEET METAL Hours: 2 Lecture/Discussion 4 Lab

Training in the layout, fabrication, and Installation of sheet metal fittings used in heating and air conditioning (coolingheating) duct systems and kitchen equipment. Development of triangulation and true length line layout and fabrication. Formerly I&T 42.

Recommended Prerequisite: 1&T 142.

## I & T 205a-b PLUMBING 3 UNITS Hours: 2 Lecture/Discussion 3 Lab

This is a beginning plumbing class for the career oriented student or the handyman wanting to develop knowledge and skill in the plumbing trade. Students will study plumbing codes and regulations, layout correct systems, and understand the different applications for black, galvanized, copper and plastic plpe. Laboratory exercises will assist to develop skill and understanding of the threading, soldering, and adhesive assembly processes.

## I & T 221 WASTEWATER TREATMENT 3 UNITS FUNDAMENTALS Hours: 3 Lecture/Discussion

Basic methods for removing pollutants from sanitary sewage and industrial wastewater are presented. Main underlying concepts of mathematics and science are introduced. Course fulfills educational point requirement which, in conjunction with required experience, qualifies student to take the State Water Resources Control Board (SWRCB) grades I and II Wastewater Treatment Plant Operator (WWTPO) exams. Course prepares student for SWRCB WWTPO grades I and II exams. Formerly I&T 20B.

## I & T 233 CAREER PLANNING/JOB SEARCH 2 UNITS Hours: 2 Lecture/Discussion

This course is recommended for students who will be seeking employment in their chosen industry and Technology area. It will assist students in defining career objectives, resume writing, and conducting an organized job search.

**Recommended Prerequisites/Co-requisites:** At least 2 semesters of an Industry and Technology program of equivalent experience.

## INDUSTRY AND TECHNOLOGY

1 & T 270a-bRESIDENTIAL WIRINGHours:3 Lecture/Discussion

**3 UNITS** 

This course fulfills the necessary education and background in the electrical field for a person to become a residential electrician. The student will learn all aspects of the national, state, and local electrical codes; proper wiring methods necessary for branch circuits pertaining to lights, receptacies, and special outlets; how to install and maintain service entrance breaker panels, sub-panels, low voltage circuits, alarms, and swimming pool wiring. Formerly 1&T 70.

### I & T 271 ELECTRICAL WIRING, 3 UNITS COMMERCIAL Hours: 3 Lecture / Discussion

lours: 3 Lecture/Discussion

An introductory course in commercial wiring methods that covers the various phases of commercial wiring. The students will study blueprints, building codes, wiring methods, nomenciature, building layouts, fasteners, and various other units used in commercial construction. Formerly I&T 71. **Prerequisites:** I & T 270 or approval of department.

## I & T 272 ELECTRICAL 3 UNITS WIRING, INDUSTRIAL Hours: 3 Lecture/Discussion

The third in a series of three electrical wiring courses. This course is recommended for all students entering the field of electrical contracting<sup>7</sup> or maintenance technology. It builds on the knowledge and experience gained through working with the I & T residential and commercial class. Formerly I&T 72. **Prereguisites:** 1 & T 271 or approval of department.

## I & T 273 ELECTRIC MOTOR CONTROLS 2 UNITS Hours: 2 Lecture/Discussion 1 Lab

This course fulfills the necessary education and background in the motor control field for an industrial maintenance electrician. The student will learn the necessary codes for proper wiring methods and installation. The student will learn how to design ladder diagrams from a sequence of operation of various types of industrial machinery at the same time providing all safety precautions necessary to make a safe operation. Safety of personnel and equipment is heavily stressed in this course. Formerly I&T 73.

**Recommended Prerequisites:** Basic electrical and mechanical knowledge. Computer literacy.

# 1 & T 274 ELECTRIC MOTOR 2 UNITS CONTROLS - PROGRAMMABLE CONTROLLERS Hours: 2 Lecture/Discussion

Hours:

1 Lab This course fulfills the necessary education and background in the motor control field of programmable controllers <u>for</u> maintenance electricians. The student will learn the coding, numbering, wiring methods and programming of motor controllers. The student will learn how to design ladder diagrams from a hard wired diagram or from a sequence of operation. Formerly 1&T 73A.

**Prerequisite:** I & T 274 or experience in industrial controls with permission of I & T department.

## INDUSTRY AND TECHNOLOGY

### I & T 275 SOLID STATE FUNDAMENTALS FOR ELECTRICIANS Hours: 2 Lecture/Discussion 1 Lab

I & T 275 is a lecture/laboratory course in the electronic field that is necessary for the industrial electrician. The student will learn solid state devices and their uses. This course is an integral part of an extensive electrical trades program intended for those persons desiring to enter the construction or maintenance electrician field. Formerly I&T 74.

**Recommended Prerequisites:** Elect. 101, Elect 102, or approval of department.

I&T	MAINTENANCE	12 UNITS
200а-ь	TECHNICIAN - LEVEL I	
Hours:	5 Lecture/Discussion	
μ	20 Lab	 

Maintenance Technician Level I requires two semesters of 450 hours each to complete the certification requirements. 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.

i & T 303	HOME MAINTENANCE	1 UNIT
Hours:	2 Lecture/Discussion	
	llab	

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 walis, detecting termittes, dryrot and etc. Students will be able to bring in problems from their own home. Formerly I&T 3. **Prerequisite:** Must be enrolled in SUCCESS Program.

## I & T 351 INDUSTRY AND TECHNOLOGY MATH

2 UNITS

2 UNITS

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 I&T 80.

## INDEPENDENT STUDY

## IND ST INDEPENDENT STUDY UNITS: Variable 151 IRANSFER STATUS UNITS: Variable Hours: 54-162 Lecture/Discussion Variable

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 enrol! In Independent Study.

## IND ST INDEPENDENT STUDY UNITS: Variable 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 121PRINCIPLES OF INSURANCEHours:3 Lecture/Discussion

**3 UNITS** 

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 3 UNITS 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.

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## INTERDISCIPLINARY STUDIES

IS 101a-d CROSS CULTURAL **EDUCATION** 

Hours:

2 UNITS

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.

#### IS 102a-d STUDENTS IN GOVERNMENT 2 UNITS AND LEADERSHIP Hours: 2 Lecture/Discussion

A course for members of the Executive Board of ASB for the study of the student body, constitution, parllamentary 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.

#### IS 201 **ISSUES IN COMMUNITY LEADERSHIP A** UNITS --LOCAL AND STATE Hours:

4 Lecture/Discussion

Designed to increase the student's leadership effectiveness in the community and work environments. Includes a study of personal leadership skillis and community/business leadership issues.

Prerequisite: Acceptance into local community leadership program.

#### IS 202 **ISSUES IN COMMUNITY LEADERSHIP** 1 UNITS --HUMAN SERVICES

1 Lecture/Discussion Hours: Designed to increase the student's leadership effectiveness in the community and work environments. Includes a study of local human services, education, and health care issues. Prerequisite: Acceptance into local community leadership program.

#### IS 203 **ISSUES IN COMMUNITY LEADERSHIP** 2 UNITS --ECONOMIC DEVELOPMENT 2 Lecture/Discussion Hours:

Designed to increase the student's leadership effectiveness in the community and work environments. Includes a study of community/business leadership issues, including the local economic base, the role of government in growth and development, and the impact of environmental concerns in local economic development.

Prereguisite: Acceptance into local community leadership program.

## INTERIOR DESIGN

#### INT INTERIOR DESIGN MATERIALS **DES 121**

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.

#### **INTERIOR DESIGN/HOUSING 3 UNITS** INT **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 **HISTORY OF FURNISHINGS 3 UNITS DES 124**

#### Hours: 3 Lecture/Discussion

This course is a survey of historical period style furniture design. It includes the analysis of historical events and the relationship of such cultural factors as art, social class economics, govenment and religion to furniture styles.

#### INT 190 SUPERVISED PRACTICE 1-3 UNIT **DES 190** Hours: **3 Labs per Unit**

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.

#### INT **TOPICS IN INTERIOR DESIGN DES 199** Hours: Variable

1-4 UNIT

**3 UNITS** 

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.

#### INT **TOPICS IN DES 299 INTERIOR DESIGN** Variable Hours:

1-4 UNIT

Topics are specialized studies or projects that are especially designed by instructors and students to enrich the learning experience in a discipline. Credit in Topics 299 is nontransferable.

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## ITALIAN

### ITALIAN 350 CONVERSATIONAL ITALIAN I Hours: 3 Lecture/Discussion

3 UNITS

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 skilis. 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 Hours: 3 Lecture/Discussion

3 UNITS

**3 UNITS** 

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 communication. Formerly ITALIAN 52.

Prerequisites: italian 351 or permission of instructor.

## JOURNALISM

### JOURNAL 1 BEGINNING NEWSWRITING Hours: 3 Lecture/Discussion 2 Lab

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. CAN JOUR 2.

Prerequisites: Ability to type 35 words per minute, or permission of the department.

Recommended Prerequisite: Eligibility for English 1.

## JOURNALISM

### JOURNAL 7 MASS COMMUNICATIONS Hours: 3 Lecture/Discussion CROSS REF: Political Science 7

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.

## JOURNAL NEWSPAPER PRODUCTION 103 a-d

3 UNITS

This course provides practical experience in all aspects of producing a newspaper through work on <u>The Campus</u>. Course content includes writing, editing, page layout, headline writing, and general editorial development. Students should be prepared to assist in the pasting up of the paper Tuesday afternoon. Formerly JOURNAL 3. **Prerequisites: Journalism 1** 

JOURNAL EDITORIAL BOARD

**1 UNIT** 

2 UNITS

### 104 a-d Hours: 1 Lecture/Discussion

This course provided advanced experience in all aspects of newspaper production. Students enrolled in the class are editors for <u>The Campus</u>. The course includes instruction in leadership techniques, editing, page design, and the legal aspects of newsgathering. Formerly JOURNAL 4a-d **Prerequisites: Journalism 1 and 103**.

JOURN	PHOTO-JOURNALISM	
1 10a-d Hours:	2 Lecture/Discussion 2 Lab	

CROSS REF: Photography 110a-d Material Fee: \$10.00 - lab

A course designed for students who would like practical publication experience and an opportunity to publish their photographs in the school newspaper. Formerly JOURNAL 10.

3 UNITS

## LEADERSHIP

1 UNIT

**1 UNIT** 

TRN 101 Hours: 1 Lecture/Discussion

**LEADERSHIP TRAINING 1** 

CROSS REF: Business 138

LDRSHP

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 ofhowto 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. Formerly LEADERSHIP 1.

## LDRSHP LEADERSHIP TRAINING 2 TRN 102

### Hours: 1 Lecture/Discussion CROSS REF: Business 139

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. Formerly LEADERSHIP 2.

Recommended Prerequisite: Leadership Training 101.

## LIBRARY

### LIBRARY 101 LIBRARY RESEARCH STRATEGIES 1UNIT Hours: 3 Lecture/Discussion Short Term Course: 6 Weeks

This course offers instruction and practice in the use of the card and on-line catalogs, reference books, periodical indexes, and other library materials, based on an understanding of research problem analysis.



## MATHEMATICS

MATH 15 COMPUTER SCIENCE I Hours; 3 Lecture/Discussion

## **3 UNITS**

Introduction to structured programming and algorithm design using the FORIRAN language, including data types, program design, conditional control structures, looping, subroutines and functions. The emphasis will be on using the computer as a problem-solving tool. Formerly MATH 15A. CAN CSCI 4 **Prerequisites:** Completion of Math 70 with a grade of "C" or better, or a successful score on the Mathematics Placement Test.

## MATH 17 COMPUTER SCIENCE II 3 UNITS Hours: 3 Lecture/Discussion 3 UNITS

Introduction to structured programming and algorithm design using the Pascal language, including discrete and dynamic data structures, program design, efficiency and testing, conditional control structures, looping, procedures and functions, recursion, and search/sort algorithms. The emphasis will be on using the computer as a problem-solving tool. Formerly MATH 15B. CAN CSCI 12

**Prerequisite:** Completion of Math 15 with a grade of "C" or better.

## MATH 21INTRODUCTION TO STATISTICS4 UNITSHours:4 Lecture/Discussion

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, Polsson, 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 a score of 530 or above on the mathematics section of the Scholastic Aptitude Test (SAT), or a passing score on the Entry Level Mathematics (ELM) Exam, or an appropriate score on the COS Math PLacement Test taken within three semesters which indicates mastery of intermediate algebra.

## MATHEMATICS

3 UNITS

## 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 a score of 530 or above on the mathematics section of the Scholastic Aptitude Test (SAT), or a passing score on the Entry Level Mathematics (ELM) Exam, 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 3 UNITS Hours; 3 Lecture/Discussion 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. Topicsinclude 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.

## MATH 62 SURVEY OF CALCULUS 2 3 UNITS Hours: 3 Lecture/Discussion 3 UNITS

A second semester course in a two-semester sequence in differential and integral calculus for the business, industrial technology, biology, 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.

**Prerequisite:** Completion of Math 61 with a grade of "C" or better.

## MATHEMATICS

PRECALCULUS MATH 70 Hours: 5 Lecture/Discussion **5 UNITS** 

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.

#### **CALCULUS WITH** MATH 75 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 5 UNITS ANALYTIC GEOMETRY 2** 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

### MATH 77 **CALCULUS WITH** ANALYTIC GEOMETRY 3

**3 UNITS** 

## 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, eigenvalues and eigenvectors, and canonical forms. Formerly MATH 11. CAN MATH 26.

Prereaulates: Completion of Math 76 or Math 62 with a grade of "C" or better.

#### MATH 81 **DIFFERENTIAL EQUATIONS 5 UNITS** Hours: 5 Lecture/Discussion

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 3 Lecture/Discussion Hours:

**3 UNITS** 

**4 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.

#### MATH 200 ELEMENTARY ALGEBRA Hours: 4 lecture hrs per week Full ferm class

This is a four-day-a-week intensive one-semester course in elementary algebra covering: fundamental operations, linear equations and inequalities, word problems, factoring, rational expressions, graphing, exponents and radicals.

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.

METEOROLOGY

## MATHEMATICS

### MATH 210 ELEMENTARY ALGEBRA 1 2 UNITS Hours: Short Term course (eight weeks) 40 lab hours

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: Short Term course (eight weeks) 40 lab hours

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:** Completion of Math 210 & 215 or Math 200 with a grade of "C" or better, or eligibility determined by the COS Mathematics Placement Procedures.

## MATH 230 INTERMEDIATE ALGEBRA Hours: 4 Lecture/Discussion

4 UNITS

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

**Prerequisite**: Completion of Math 210 & 215 or Math 200 with a grade of C or better, or eligibility determined by the COS Mathematics Placement Procedures.

### 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.

**Recommended prerequisite:** Eligibility determined by the COS Mathematics Placement Procedures.

## METEOR 1 ELEMENTARY METEOROLOGY Hours: 3 Lecture/Discussion

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 meteorologicalenvironmental 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**

**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 Musicianship 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 1 5 UNITS Hours: 5 Lecture/Discussion

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 48.

**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 class plano.

## 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 ear training, sight singing, and keyboard components 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	3 UNITS
8a-b		

### Hours: 3 Lecture/Discussion

Ranges, transpositions, technical capabilities, and idiomatic 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 Lecture/Discussion

**3 UNITS** 

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.

## MUSIC

### MUSIC 20 PIANO I Hours: 1 Lecture/Discussion 1 Lab

1 UNIT

Designed for the student who has had no previous plano training. Students will learn specific skills enabling them to read music and identify musical symbols on sight while performing repertoire by various composers in all periods of music. The student will also perform finger/dexterity skills in musical exercises, such as scales, to strengthen finger, wrist, hand muscles. Formerly MUSIC 8A.

## MUSIC 21 PIANO II 1 UNIT Hours: 1 Lecture/Discussion

Designed for the student who has had one semester previous plano training. Students will learn specific skills enabling them to read music and identify musical symbols on sight while performing repertoire by various composers in all periods of music. The student will also perform finger/dexterity skills in musical exercises to strengthen finger, wrist and hand muscles at a higher level of learning of skill and activity. Formerly MUSIC 88

**Recommended Prerequisite:** Music 20 or one year of private plano.

## MUSIC INTERMEDIATE/ 22a-d ADVANCED PIANO Hours: 2 Lecture/Discussion 1 Lab

h

1 UNIT

**1 UNIT** 

Designed for the intermediate planist who has had prior instruction. Students will learn specific skills enabling them to read music and identify musical symbols on sight. Students will also learn and acquire knowledge of the development of the plano through different periods of history to the present in our country as well as foreign countries.

**Recommended Prerequisites:** Music 21 or one year or more of plano Instruction.

### MUSIC ORGAN I, II, III AND IV 23a-d Hours: 2 Lecture/Discussion 1 Lab

Music 23a-d is a course designed for the student who has had at least one year private instruction on a keyboard instrument, such as plano, organ or accordion. Students will learn specific musical symbols on sight while performing repertoire by various composers in the areas of theatre, classical or liturgical organ music. The student will also perform finger/dexterity skills in musical exercises, such asscales and arpeggios on bothmanual and pedal keyboards, to strengthen finger, wrist, foot, ankle, and hand/foot body muscles. Formerly MUSIC 70a-d. **Recommended Prerequisite:** One year keyboard, either plano, organ or accordion. Audition by department.

MUSIC

MUSIC

Recommended Prerequisites: Knowledge on one or more

instruments.

MUSIC 30a-b	VOICE	1 UNIT	MUSIC 50a-d	STRING INSTRUMENTS	2 UNITS
Hours:	1 Lecture/Discussion 1 Activity		Hours:	1 Lecture/Discussion 1 Lab	
singing, de	the technical, stylistic, and esigned to help the individu d develop solo vocal reper	al student improve his/her	string far Emphasis bowing, t	e provides beginning instruct nily. These include, violin, s will be on care of instrum technique, and playing positi	viola, cello, and bass. ents, tone production,
MUSIC 32a-d	WOMEN'S CHORUS	1 UNIT	d. Recomm instrumer	ended Prerequisite: Knowl	edge of one or more
Hours:	2 Activity			113.	
	-d offers a study and perfor	maince of choral literature			
	voices from the Renalss		MUSIC	STRING ORCHESTRA	1 UNIT
	on vocal production and t		52a-d		
	d musical precision and a		Hours:	2 Lab	and a stray your astrony with
Sublic pe	rformance is required. For	meny MUSIC 430-0,		and performance of string a Itention to Interpretation, tone	
•				Planned for those interest	
NUSIC	CONCERT CHOIR	2 UNITS		ship. Some outside or put	
4a-d		•	required.	Formerly MUSIC 22a-d.	
lours:	1 Lecture/Discussion	, i	Recomm	ended Prerequisites: Musici	ans must play a string
	· 4 Lab Fee: \$5.00			nt (violin, viola, cello, or bass). sion of department.	Enroliment by audition
usic 340	a-d offers a study and the	e performance of choral			
erature f	rom the Renaissance to Cor	ntemporary with emphasis	ł		
	production and tone qua		MUSIC	BRASS INSTRUMENTS	1 UNIT
	cal precision and accurac		60a-d	• • • •	
	nce is required. Formerly N		Hours:	1 Lecture/Discussion	
ecomina	ended Prerequisites: Audit	ion by depanment.	This cours	<b>1 Lab</b> e provides beginning instructi	lon on instruments of the
			brass fan	nlly. Emphasis will be on co	are of Instruments, tone
IUSIC 6a-d	CHAMBER SINGERS	2 UNITS	MUSIC 50	on, breathing technique and p r-d	aying position. Formerly
ours:	5 Activity			ended Prerequisite: Knowl	edge of one or more
ur mem	a-d a selected performing obers selected from the c ffers the study and perfor peopletic for mail anomalies	oncert choir. Chamber mance of choral music	instrumer		
performa	pecially for small ensemble nce is required. Formerly N <b>tes:</b> Music 34a-d. Auditior	1USIC 42a-d	MUSIC 61a-d	PERCUSSION INSTRUMENTS	1 UNIT
. aradnısı			Hours:	1 Lecture/Discussion	
			This course	l Lab e provides beginning instruct	ion on instruments of the
IUSIC	PERFORMANCE MUSIC	1 UNIT	Dercussio	n family. Emphasis will be on	the care of Instruments
0a-d		,		duction, proper grips, techniq	
ours:	2 Lab	,		MUSIC 6a-d.	
ərformar	nce in music activities such a		Recomm	ended Prerequisite: Knowl	edge of one or more
	or in groups ensembles		instrumer	nts.	and the second se
	, and jazz ensemble. Hou				
	participate but are una Physical education credit		MUSIC	WOODWINDS INSTRUMENT	S 1 UNIT
	te: Permission of departme		62 a-d		
			Hours:	1 Lecture/Discussion	
		*		1 Lab	
	,			e provides beginning instruct	
				nd family. These include,	
		· · · ·		ne and bassoon. Emphas hts, tone production, embo	
				e and playing position. Forn	

201

## MUSIC

MUSIC MUSIC 2 UNITS CONCERT BAND MUSIC REHEARSAL 2 UNITS 74 a-d 91a-d AND PERFORMANCE LAB Hours: 2 Lecture/Discussion Hours: 120 Activity The College of the Sequolas Musical Theater Orchestra will 3 Lab Materials Fee: \$10.00 emphasize the rehearsal and performance techniques necessary to accompany in the production of a musical. A study of performance of standard concert band repertory with special attention to interpretation, tone, technique, and Formerly MUSIC 11a-d. general effect. Planned for those interested in improving their Recommended Prerequisites: Advanced musicians of orchestral musicianship. Some outside or public performances are instruments. Enrollment by permission of department. regulred. Formerly MUSIC 19a-d. Recommended Prerequisite: Advanced musicians of band Instruments. Enrollment by permission of department only. MUSIC **NIGHT JAZZ ENSEMBLE 1 UNIT** 92a-d MUSIC MARCHING BAND 2 UNITS Hours: 3 Lab 75a-d A study and performance of jazz ensemble repertory with Hours: 6 Lab special attention to interpretation, tone, technique, and general CROSS REF: PE 41a-d effect. Planned for those Interested in Improving their musicianship and improvisational skills. Some outside travel Materials Fee: \$10.00 This course is open to all students who demonstrate ability to and public performances are required. Formerly MUSIC 58a-d. Recommended Prerequisites: Advanced musicians of Jazz play a band instrument. The marching band represents the college in public functions which may include the performance band instruments. Enroliment by audition or by permission of of band literature at concerts, parades, railies and athletic department. events. Emphasis is placed on the development of music performance and marching skills. Formerly MUSIC 18a-d. Prerequisites: Prior experience in high school or equivalent or MUSIC NIGHT **1 UNIT** an ability to play a band instrument competently. 94 a-d DANCE BAND 3 Lab Hours: Materials Fee: \$10.00 A study and performance of dance band repertory with special MUSIC PEP BAND **1 UNIT** attention to interpretation, tone, technique, and general effect. 76a-d Planned for those interested in Improving their musicianship Hours: 2 Lab and improvisational skills. Some outside travel and public This course is designed for students who are interested in performances are required. Formerly MUSIC 60a-d. performing in smaller groups at athletic functions (basketball, Recommended Prerequisites: Advanced musicians of jazz band footbail, volleyball, etc.). This class is an extension of the instruments. Enrollment by audition or by permission of marching band and will occasionally use some of the same department. Ilterature. Formerly MUSIC 16a-d. Recommended Prerequisites: Advanced musicians of band instruments. Marching Band is a prerequisite and con-current MUSIC **MUSICAL THEATRE PERFORMANCE** 2 UNITS enroliment is permissible. Enroliment by permission of 97a-d department. Hours: 120 Activity CROSS REF: Theater Arts 20a-d, Dance 41a-d Experience in drama and theater through active participation in major musical and dramatic productions. Includes training MUSIC CHORUS OF THE **1 UNIT** and experience in all facets of the theater. Formerly MUSIC

90a-d SEQUOIAS Hours: 2 Activity Materials Fee: \$5.00 Chorus of the Sequolas is open to all interested singers. The

chorus offers a study and the performance of choral literature from the Renaissance to Contemporary with particular emphasis on the major choral works of the Baroque, Classical, Romantic, and Contemporary periods. Evening rehearsals. Formerly MUSIC 57a-d.

## **1 UNIT**

163 a-d Hours:

41a-d,

MUSIC

1 Lecture/Discussion 1 Lab

**PERCUSSION ENSEMBLE** 

A study and performance of Percussion Ensemble repertory with special attention paid to tone, technique, musicianship, and overall musical effect. Planned for musicians interested in Improving their musicianship and performance skilis. Some outside travel, field trips, and public performances are reaulred. Recommended Prerequisites: Enrollment by audition or by permission of Department.

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MUSIC **JAZZ ENSEMBLE** 172a-d

**2 UNITS** 

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Hours: 2 Lecture/Discussion 3 Lab

### Materials Fee: \$10.00

A study and performance of jazz ensemble repertory with special attention paid to tone, technique, musicianship, and overall musical effect. Some outside travel and public performances are required.

Recommended Prerequisites: Advanced musicians of jazz band instruments. Enrollment by audition or by permission of department.

MUSIC	JAZZ COMBO	2 UNITS
1 <b>74a-d</b>		
Hours:	1 Lecture/Discussion	
	2 Lab	

A study and performance of Small Jazz Ensemble repertory with special attention paid to tone, technique, musicianship, and overall musical effect. Planned for musicians interested in improving their musicianship, improvisational and performance skills. Some outside travel, field trips, and public performances are required.

Recommended Prerequisites: Enroliment by audition or by permission of Department.

MUSIC 183a-d	NIGHT STUDIO BAND		
Hours:	3 Lab		

A terminal course which rehearses all types of music performed in the recording studio. Recording on tapes and making a professional quality record will be a major project. Formerly MUSIC 62a-d.

Recommended Prerequisite: Prior experience and ability to competently play a jazz Instrument.

#### MUSIC 201 BEGINNING GUITAR Hours: 2 Lab

### **1 UNIT**

**1 UNIT** 

This is a beginning, nontransferrable guitar course for students with limited musical experience. Students will learn to read and play melody lines which use the notes on all six strings and are written in simple rhythmic patterns. Students must provide their own guitars. Acoustic Instruments only. Formerly MUSIC 2A.

#### **MUSIC 202 INTERMEDIATE GUITAR** Hours: 2 Lab

**1 UNIT** 

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: Students v various ke be learne	3 ADVANCED GUITAR 2 Lab vill learn increasingly difficult melodi- ys. Melodic and chord transposition d. Formerly MUSIC 2C. ended Prerequisite: Music 202 o	to other keys wi
MUSIC 224a-d	KEYBOARD ACCOMPANIMENT	1 UNIT
Hours:	2 Lecture/Discussion 1 Lab	
In vocal, si and chore synthesize duets be (liturgical	e involves small groups, such as solols ring, brass and the larger groups such is. Other items covered would be the r and computer, musical theatre aud tween plano/plano, plano/orgar vs. theatre). Formerly MUSIC 25a-d. anded Prerequisites: Music 34a-d.52	h as a symphony utilization of the ditions, as well a n, organ/orgar

Also, at least one year or more of private instruction. Audition by department.

MUSIC	SIGHT SINGING AND BASIC	1 UNIT
231	FUNDAMENTALS OF MUSIC	
Hours:	1 Lecture/Discussion	
	1 Activity	
A practi	cal course in sight singing, aurai p	perception, and
	analysis including the study of no	
	ey and meter signatures, interva	
	av. Formerly MUSIC 44.	

MUSIC	MADRIGAL DINNER	1 UNIT
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.

	DIXIELAND	BAND	
70a-d Iours:	2 Lab		•

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.

**1 UNIT** 

## MUSIC

**1 UNIT** 

#### MUSIC SEQUOIA WINDS 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: Sequola Winds Is open to all Interested instrumental band musicians.



NURSING **REGISTERED NURSING THEORY 10 UNITS** 101 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 12 UNITS** 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

#### 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 **REGISTERED NURSING THEORY IV 13 UNITS** 104 **NEUROLOGICAL/PSYCHIATRIC NURSING** AND LEADERSHIP AND & NURSING MANAGEMENT 6 Lecture/Discussion

Hours:

### 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

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Prerequisite: Nursing 103

#### NURSING **CULTURAL DIVERSITY IN** 106 **HEALTH AND ILLNESS 3 Lecture/Discussion** Hours:

**3 UNITS** 

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. Focused upon the client (individual, family or social group), the course investigates values, beliefs, and customs as they effect health and illness behaviors. Formerly NURSING 6.

#### NURSING PHARMACOLOGY 2 UNITS 110

#### Hours: 2 Lecture/Discussion

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, non-steroidal anti-inflammatory drugs, hypnotics, anti-infectives, and antineoplastics. Also discusses are the skills and techniques necessary to deliver intravenous fluids. Formerly NURSING 10. Prerequisites: Successful completion of Nursing 101 and Nursing 122.

## NURSING

**6 UNITS** 

NURSING PERIOPERATIVE 120 NURSING Hours: 4 Lecture/Discussion 24 Lab

This is an elective course in perioperative nursing. This course is designed to prepare a competent and knowledgeable practitioner to administer optimum care to select surgical patients during pre-operative, intra-operative and postoperative phases of surgical intervention. Formerly NURSING 20.

Recommended Prerequisite: Nursing 101 and 122.

NURSING	FOUNDATIONS OF NURSING PRACTICE	3 UNITS
Hours:	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 acquisition of these abilities leads the student to the development of nursing diagnoses.

Prerequisites: Biology 30, Biology 31 and acceptance into Registered Nursing Program.

NURSING	CARE OF THE	6 UNITS
125	PATIENT IN ICU	
Hours:	4 Lecture/Discussion	
	24 Lab	

This course is a study of nursing intervention focused on the needs of the critically ill 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 NURSING 25.

**Prerequisites:** Nursing 103 or permission of the department. Licensure as a Vocational Nurse.

NURSING	ONCOLOGY NURSING	6 UNITS
Hours:	4 Lecture/Discussion 24 Lab	
	24 LUD	 

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.

## NURSING

## NURSING MENTORSHIP: 134 TRANSITION FROM STUDENT TO NURSE Hours: 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.

**1 UNIT** 

**Prerequisites:** Registered 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.

# NURSING GENERAL MATHEMATICS 3 UNITS 321 RELATED TO NURSING 3 UNITS Hours: 3 Lecture/Discussion 3 Lecture/Discussion

algebra and geometry for use 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.

NURSING	<b>REVIEW COURSE FOR NCLEX</b>	<b>3 UNITS</b>
325		
Hours	Short Term Course - 5 days	

Hours: Short Term Course - 5 day Eight Hours Per Day

This course is a short term course designed for Nursing 104 students or recent graduates. The course is a review basic nursing theory intended to prepare the student for the NCLEX licensing examination.

**Prerequisite:** Registration in Nursing 104 or permission of the department.

 NURSING
 INTRAVENOUS

 333
 THERAPY CERTIFICATION CLASS

 Hours:
 SHORT TERM COURSE: 9 Weeks

 1 Lecture/Discussion
 3 Lab

This course is designed to prepare Licensed Vocational Nurses to initiate and maintain intravenous therapy in a clinical agency which has protocols to provide for such function. If includes theory, laboratory practice, and supervised clinical practice in IV therapy techniques. Formerly NURSING 33.

Prerequisite: Must be a licensed Vocational Nurse employed in an agency with an inservice Education Department.

**1 UNIT** 

## NURSING

 NURSING
 NURSING AND OTHER HEALTH
 D UNITS

 401
 CAREERS FOR ETHNIC DIVERSITY
 UNITS

 Hours:
 Short Term Course (8 weeks)
 12 Lecture/Discussion

 4 Lab
 4 Lab
 4 Lab

This course is designed to introduce minority students to health care career opportunities during their early high school years. The course provides information regarding careers, opportunity for the student to observe health care service personnel at the job site, and guidance for the student in selection of high school courses which will enhance their entry into college level courses. Emphasis will be placed on nursing, but other health care careers will be addressed.

NURSING	CARDIOPULMONARY	-	.5 UNITS
405	RESUSCITATION		
Hours:	4 Lecture/Discussion		
	14 Lab		
This 10 have	ويتجاجبه والمحاصر والمحام والمحدد بمراجع	بطلاب المحمال	

This 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.

NURSING	NURSING ASSISTANT		5 UNITS	
Hours:	3 Lecture/Discussion			
A course	6 Lab	including	orincipios	~

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.

## NUTRITION/FOODS

## NUTR/ NUTRITION

**3 UNITS** 

Hours: 3 Lecture/Discussion

A 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 H EC 2.

## NUTRITION/FOODS

**3 UNITS** 

NUTR/ FOODS FOOD 101 Hours: 2 Lecture/Discussion 3 Lab

## Materials Fee: \$10.00

A 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.

## NUTR/ FOODS 2 UNITS FOOD 102 Hours: 1 Lecture/Discussion 3 Lab

Materials Fee: \$10.00

A 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 diets. Formerly HOME ECONOMICS 10B.

#### 

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.

#### 

4 Lab This course is designed so that performance standards meet

employer expectations and enhance students' job 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.

## NUTR/ SANITATION & SAFETY 1 UNIT FOOD 107

## Hours: 1 Lecture/Discussion

Basic concepts of sanitation and safety and their application in the foodservice industry. Federal, state and local regulations. Formerly HOME EC 14.

206

## NUTRITION/FOODS

### NUTR/ **CHILDREN'S NUTRITION** FOOD 112

**3 UNITS** 

1-3 UNIT

1-4 UNIT

Hours: 3 Lecture/Discussion Cross Ref: Child Dev 112

A survey course of children's nutritional requirements. 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.

#### 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.

NUTR/	SUPERVISED PRACTICE	
FOOD 190		

#### Hours: **3 Labs per Unit**

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.

#### NUTR/ **TOPICS IN** FOOD 199 NUTRITION/FOODS Hours: Variable

Topics are specialized studies or projects that are especially deslaned by instructors and students to enrich the learning experience in a discipline. Credits may be earned in 199 transfer level.

#### NUTR/ **MODERN MEALS** 2 UNITS FOOD 203 Hours: 1 Lecture/Discussion

3 Lab Materiais 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.

## NUTRITION/FOODS

NUTR/ TOPICS IN FOOD 299 NUTRITION/FOODS Hours: Variable

1-4 UNIT

Topics are specialized studies or projects that are especially designed by instructors and students to enrich the learning experience in a discipline. Credit in Topics 299 is nontransferable.



## ORNAMENTAL HORTICULRE

OH 2 PLANT IDENTIFICATION 1 Hours: 3 Lecture/Discussion 1 Lab

**3 UNITS** 

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 2A.

#### **PLANT IDENTIFICATION 2 3 UNITS** OH 3 Hours: **3 Lecture/Discussion** 1 Lab

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 OH 2B.

OH 7 LANDSCAPE DESIGN **3 Lecture/Discussion** Hours:

1 Lab

**3 UNITS** 

## 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.

OH 101 **BASIC ORNAMENTAL** 

**3 UNITS** 

HORTICULTURE 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.

## ORNAMENTAL HORTICULTURE

				•	
OH 105 Hours: Materials F	PLANT PROPAGATION 3 Lecture/Discussion 1 Lab	3 UNITS	OH 111 Hours:	FLORAL DESIGN 3 Lecture/Discussion 1 Lab	3 UNITS
A plant so propagation budding. T fruit and ou <b>Recomme</b>	ee: so, uu ilence course that studies th on by seed, cutting, layering, a he primary focus of this course rnamental plans. Formerly Of nded Prerequisite: One of th nce 12 or 113, or Biology 21.	division, grafting, and is the propagation of 14.	OH 111 Is a floristry the general co	Fee: \$50.00 In Introductory lecture and lab at covers the various phases purse for a two-year certificate limited to agriculture majors.	of floral design. It is a e and transfer students
OH 106	LANDSCAPE DRAFTING	3 UNITS	OH 112 Hours:	SYMPATHY FLOWERS 3 Lecture/Discussion	3 UNITS
Hours: Materials F This course used in cre symbols, le	3 Lecture/Discussion 1 Lab	nlques and standards lents learn landscape as well as methods of	Ornament certificate certificate offlowerss	1 Lab Fee: \$50,00 tal Horticulture 112 is a count students. It is a requirement of DH 112 teaches the advance pecifically for sympathy work, rrangements and solid work.	for the floral industries ced styling and design casket sprays, wreaths,
Sketching	and the use of drafting equipr ectural fields are also stressed	nent from landscape	OH 113 Hours:	WEDDING FLOWERS 3 Lecture/Discussion 1 Lab	3 UNITS
year hortic	urse in ornamental horticulture culture majors that teaches	the fundamentals of	Ornament students. OH 113 teo carry, as complete	Fee: \$50,00 Fee: \$50,00 It is a requirement for the Flora aches advanced styling of flor practiced specifically in we coverage of wedding bouquents, balloons and bouquet de	al Industries certificate. al designs to wear and dding work, including uets, corsages, church
	on as they relate to landsco nce of landscape plants. Forn		OH 114		OUR 3 UNITS
landscape and highw	LANDSCAPE MAINTENANCE 3 Lecture/Discussion 1 Lab ee: \$5.00 a lecture and lab course on o of homes, parks, schools, go ayplantings. The students stud pest control and landscape mo	If courses, plus street ypruning, fertilization,	Hours: Ornameni horticultur centers, fl retail outle to wholese	HORTICULTURE INDUSTRIES T (Northem California) 3 Lecture/Discussion tal Horticulture 114 is a field e outlets and the industries tha ower shops, foundation and its and public educational fac alers, jobbers, display houses, s working with retailers are in	d trip to ornamental tsupplythem. Garden display garden with illities are studied. Visits , advertising agencies
Includes se	TURFGRASS MANAGEMENT 3 Lecture/Discussion 1 Lab ee: \$5.00 ction to the field of turfgrass lection and use of turfgrass va areas, golf courses, and home	rieties for use in parks,	horticultur centers, fl retail outle to wholes	HORTICULTURE INDUSTRIES To (Southern California) 3 Lecture/Discussion 1 Lab tal Horticulture 115 is a field e outlets and the industries tha ower shops, foundation and ots and public educational fac alers, jobbers, display houses, working with retailers are inclu	d trip to ornamental tsupplythem. Garden display gardens with illities are studied. Visits , advertising agencies

ORNAMENTAL HORTICULTURE

			Cou	RSE ]	DESC	RIPTION	S
	ORNAMENTAL HORTICULTURE	, 	Ρ		PARALEGA	<b>L</b>	
он 116	HORTICULTURE INDUSTRIES TOUR 1UN (Central California)	IT	PARA 101	INTRODUCTI		3 UNITS	
A field trip to and the ind shops, both growers, ar wholesalers	40 Hour Short Course o Central California ornamental horticultur dustries that supply them. Garden center anical and display gardens, flower and de public educational facilities are studied s, jobbers, display houses, advertising agen ing with retailers are included.	rs, flower I nursery . Visits to	designed to The studen in the legal analysis inc and expose the law. Fo	3 Lecture/Di ad survey con o train the stu- tis given basi community, cluding case ure to various prmerly PARA	Iscussion urse is the in udent for emp c knowledge career oppoi briefing, intro s substantive A 1.	ttal course in a progr ployment as a paraleg of the role of a parale tunities, legai ethics, le duction to the law libr and procedural area gai 102 (co-requisite) c	gal. gal gal rary s of
OH 118 Hours:	XERISCAPE 3 UI 3 Lecture/Discussion 1 Lab	NITS	English 1 el			,	
landscape of wise use landscape		tenance	Hours: A require terminolog	d course a y, concepts, <b>nded Prere</b>	<b>iscussion</b> cquainting and definitio	<b>i UNIT</b> the student with le ons. Formerly PARA 6. Incurrent enroliment	
design rela	INTERIORSCAPES 3 U 3 Lecture/Discussion 1 Lab be: \$5.00 he principals of residential and commercial ting to plant materials for aesthetic purpose of this class. Formerly OH 19.	al interior	Hours: A required with the co and the st in the use	ncepts of bot ages of civil li	<b>iscussion</b> nedto familic nCalifornia a itigation. The udicial forms.	<b>3 UNITS</b> Irize the paralegal stud Ind Federal Civil Proced student will be instruc Formerly PARA 4A.	lure
OH 120 Hours:	PESTS AND DISEASES OF 3 UI ORNAMENTALS 3 Lecture/Discussion	NITS	Tierequien				
insects, we including chemical, application	1 Lab , analysis and management of plant pests to eds, and diseases. Principles of controlli plological, cultural, physical, mechanic Pesticide safety, formulation, and me nare presented. This course is an integral p al Horticulture program intended for two dents.	ng pests cal, and thods of art of the	Hours: A second concepts of the studer discovery of	ofcivilproced nt to learn t devices, and	<b>iscussion</b> ourse which dure learned o draft corr	3 UNITS draws upon the bo in Paralegal 4A to ena plicated civil pleadir y writs. Formerly PARA to 105.	ngs,
combining	3 Lecture/Discussion 1 Lab nd application of the theory and prin plant materials for use in the landscape a ural, esthetic and special environmental ar	ccording	Hours: This require the basic t The studer cases and and mem	ools of résear It will learn to clearly and c Ioranda bas	IG I iscussion esigned to far iching both Fo locate autho concisely write ed on that	3 UNITS niliarize the paralegal ederal and California l prity relevant to partic evarious legal docume research. Analysis o ppinions are also includ	aw. ular ents and
OH 400 Hours:	HOME VEGETABLE GARDENING 0 U 3 Lecture/Discussion 1 Lab	NITS	Formerly P. <b>Recomme</b>		<b>uisites:</b> Parale	igal 101 and 103.	
production and care, harvesting.	ee: \$10.00 Introductory lecture course in small scale vo a. The students study plant selection, solls, as well as methods of planting of irriga This course is of great value to anyone wh oper techniques of home vegetable go	fertilizers, tion and to desires					
					-	2	:09

#### **COURSE DESCRIPTIONS** PARALEGAL PARALEGAL **3 UNITS 3 UNITS** PARA 106 LEGAL RESEARCH PARA 132 WILLS, TRUSTS, AND WRITING II AND PROBATE 3 Lecture/Discussion 3 Lecture/Discussion Hours: Hours: A second semester required course in advanced legal research This is an elective course designed to familiarize the student and writing designed to expand the paralegal student's ability with the legal aspects of wills, trusts, and probate. Included is the effect of death upon property ownership, community to perform more complicated legal research and legal analysis. Assignments include drafting points and authorities and property and the drafting of forms associated with probate appellate briefs. Formerly PARA 2B. law. Formerly PARA 12. Prereguisites: Paralegal 101, 103, and 105. Prereguisites: Paralegal 101 and 103. PARA 107 CLIENT INTERVIEWING FOR **1 UNIT** PARA 133 CORPORATE LAW **1 UNIT** THE PARALEGAL 1 Lecture/Discussion Hours: 1 Lecture/Lab This elective course enables the paralegal to understand the Hours: This required course will familiarize the student with interviewing corporate structure and gives special attention to the areas of techniques, ethical considerations for the interviewer, and agency, partnership, rights of stockholders, and the drafting of methods of documenting and summarizing interviews. Formerly legal documents associated with these business entities. PARA 21. Formerly PARA 13. Prerequisites: Paralegal 101, 103, 105, and concurrent Prerequisites: Paralegal 101 and 103. enrollment in Paralegal Internship. **1 UNIT** PARA 134 REAL ESTATE LAW **1 UNIT** PARA 108 LAW OFFICE MANAGEMENT Hours: 1 Lecture/Discussion 1 Lecture/Discussion This is an elective course covering practices and procedures of Hours: A regulted course designed to train the student in the real estate and landlord-tenant law, including the drafting of management of a law office. Content of the course includes legal forms used in these areas. Formerly PARA 14. iaw office organization, time keeping, and time management, Prereguisites: Paralegal 101 and 103. 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 135 BANKRUPICY **1 UNIT** PARA 3. Prereguisites: Paralegal 101, 103 and 105 and concurrent 1 Lecture/Discussion Hours: enrollment in Paralegal 193, 194, 195, & 196. This is an elective course which provides general knowledge of the types of bankruptcy, jurisdiction, bankruptcy court procedures, dutles of bankrupts and trustees, and adversary proceedings. Formerly PARA 8. 1.5 UNITS PARA 130 TORT LAW Prerequisites: Paralegal 101 and 105. Hours: 1.5 Lecture/Discussion This elective course provides a broad overview of torts including Intentional torts, negligence and strict liability as well as defenses to the same. The student will learn to draft standard form **1 UNIT** PARA 136 ADMINISTRATIVE LAW complaints based on common fort theories. Formerly PARA 10. 1 Lecture/Discussion Hours: Prerequisites: Paralegal 101 and 103. 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. PARA 131 CONTRACT LAW 1.5 UNITS Prerequisites: Paralegal 101 and 105. 1.5 Lecture/Discussion Hours: 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. **3 UNITS** PARA 137 FAMILY LAW Prereguisites: Paralegal 101 and 103. Hours. 3 Lecture/Discussion 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.

## PHILOSOPHY

## **3 UNITS**

**3 UNITS** 

**3 UNITS** 

**3 UNITS** 

#### PHILOS 13 INTRO TO THE OLD TESTAMENT/TESTAMENT SURVEY 3 Lecture/Discussion Hours:

A general survey of the religion of the Hebrews with particular emphasis on the thought, theology and writings of the Old Testament. These are examined within the historical context of the history of israel.

### PHILOS 14 INTRO TO THE **NEW TESTAMENT**

## **3 Lecture/Discussion**

Hours: An introduction to the early Christian community in the period following the death of Christ. Utilizing a historical approach, the course traces the thought and theology reflected in the New Testament writings.

#### PHILOS 25 CRITICAL THINKING Hours: 3 Lecture/Discussion

Principles and methods of valid reasoning from objective evidence. Focus Is on a practical defense against fallacious arguments and self-deception. Typical topics include deductive and inductive logic, formal and informal fallacles of language, thought, and cultural bias, distinguishing fact from judgment, scientific methodology, and creativity. Prereguisite: English 1.

## PHILOS 120 PHILOSOPHY

3 Lecture/Discussion Hours:

A study of logical reasoning by translating ordinary language into symbols for ease of analysis. Students will learn how to identify arguments, to distinguish between inductive and deductive arguments, to derive logical and sound conclusions, and to detect common fallacies of thinking. Applications are for the student Interested in the structure of arguments (philosophy and law), as well as, the student in mathematics, science, and computer sciences.

Recommended Prereaulsite: English 1, or Math 230.

## PHOTOGRAPHY

PHOTO 1 BEGINNING PHOTOGRAPHY

**3 UNITS** 

#### Hours: 2 Lecture/Discussion 3 Lab

## Materials Fee: \$20.00

This class is a study in the basic principles and practices of photography. This course is designed to provide a foundation of basic knowledge for those planning an advanced career in photography and who plan further advanced photographic study, or for those in other fields where an understanding of photography may be beneficial. It is also designed to provide the photographic enthusiast with a good working knowledge of this medium as a means of visual communication and self expression. CAN ART 18.

#### 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.

PARALEGAL

**1 UNIT** 

**1 UNIT** 

**3 UNITS** 

Prerequisites: Paralegal 101 and 103 or consent of department,

#### PARA 139 WORKERS **1 UNIT COMPENSATION LAW**

1 Lecture/Discussion Hours:

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. Preregulaites: Paralegal 101 and 105.

#### PARA 197 PROFESSIONAL RESPONSIBILITY 1 Lecture/Discussion Hours'

This required course is designed to assist the second year paralegal student in making the transition from the classroom to the law office. The course covers ethics, regulation of paralegals, job realities, career opportunities, and advanced legal analysis.

Prerequisite: Paralegal Cooperative Work Experience

PHILOSOPHY

#### PHILOS 10 DEVELOPME: 1 ()F WESTERN PHILOSOPHY 3 Lecture/Discussion Hours:

The classical and medieval traditions with special reference to

the systems of Plato, Aristotle, Stoicism and Christianity and the contributions of Presocratics, Socrates, Plato, Aristotle, Augustine and Aquinas. Formerly PHILOS 10A. CAN PHIL 8. Recommended Prerequisite: Eligible for English 1.

#### PHILOS 11 DEVELOPMENT OF WESTERN PHILOSOPHY Hours: 3 Lecture/Discussion

**3 UNITS** 

The origins of modern philosophy is considered, including humanism, rationalism, utilitarianism, empiricism, idealism, positivism, pragmatism, Marxism, and existentialism and the contributions of philosophers. Formerly PHILOS 10B. CAN PHIL 10.

Recommended Prerequisite: Eligibility for English 1.

#### PHILOS 12 COMPARATIVE RELIGION Hours: **3 Lecture/Discussion**

**3 UNITS** 

A general survey of the major religions of the world (Hinduism, Jainism, Buddhism, Sikhism, Confuscianism, Taolsm, Shintoism, Zoroastrianism, Judaism, Christianity, and Islam). The emphasis is on a comparison of themes common to all, or most religions. Formerly PHILOS 11,

## PHOTOGRAPHY

PHOTO ADVANCED PHOTOGRAPHY 1 UNIT 2a-c LABORATORY Hours: 3 Lab

## Materials Fee: \$20.00

These classes provide an extension of the basic principles and practices learned in Photography 1. These courses expand upon the knowledge gained in the beginning and basic classes. It is designed for those who have more than a casual interest in the subject and wish to expand their knowledge and advance their skills in the field of photography. Photography 2a-c is a Lab course.

### Recommended Prerequisites: Photography 1.

PHOTO PHOTO JOURNALISM 2 UNITS 110a-d Hours: 2 Lecture/Discussion 2 Lab

Cross Ref: Journalism 110a-d. Materiais Fee: \$15.00

A course designed for students who would like practical publication experience and an opportunity to publish their photographs in the school newspaper. Formerly PHOTO 10a-d.

PHOTO 370a-c	COLOR PHOTOGRAPHY	2 UNITS
Hours:	2 Lecture/Discussion 2 Lab	
A Real and a start of	F A1C 00	

## <u> Materials Fee: \$15.00</u>

Color photography is designed for those interested in color photography with a basic understanding of black and white photography. Students will be given the opportunity to experience making photos using various types of color films and experience the various types of darkroom activities. Photography 70 b and c will give the student an opportunity to do advanced work in color photography. Formerly PHOTO 70a-c.

Recommended Prerequisites: Photo 1

## PHOTO PORTRAIT PHOTOGRAPHY 371a-c

Hours: 2 Lecture/Discussion

2 Lab

## <u>Materiais Fee: \$15.00</u>

Portrait Photography 371a is an introduction course in the area of portrait photography. The course is by lecture and lab. The students will have the opportunity to study the various types of equipment used in portraiture and the various types of equipment used in portrait photography. Portrait Photography 371b and c are designed to give the students an opportunity to work with advanced lighting techniques in portrait photography and to keep abreast with new and developing techniques in this area. Formerly PHOTO 71a-c.

**Recommended Prerequisites:** Photography 1 or Photography 370a-c.

## PHYSICAL EDUCATION

**1 UNIT** 

**1 UNIT** 

## Adaptive PE

### P.E. 52a-d ADAPTED P.E. -ADAPTED WEIGHT TRAINING Hours: 1 Lecture/Discussion 3 Activity

This is a one unit course for the disabled designed to assist students in body development, maintenance and/or conditioning. Individual programming for each student's needs and wants is provided. Trained assistants are available. This course may be repeated for credit. Formerly PE 53a-d. **Recommended Prerequisite:** Any physical limitation.

P.E. 55 a-d ADAPTED P.E. - SEASONAL SPORTS FOR THE DISABLED Hours: 1 Lecture/Discussion

1 Lecture/Discussion 2 Activity

Each semester disabled students will have the opportunity to acquire the skills that are fundamental to swimming, tennis, track, and bowling. The basic skills, rules, equipment, and terminology needed are covered each semester. Trained assistants are available. Formerly PE 51a-d. **Recommended Prerequisite:** Any physical ilmitation.

## P.E. 57a-d ADAPTED P.E. - PHYSICAL FITNESS 1 UNIT AND FLEXIBILITY

Hours: 1 Lecture/Discussion 2 Activity

Assists disabled students in developing and maintaining basic physical skills, knowledge, and attitudes necessary for enjoyable and satisfactory participation in lifetime fitness, flexibility and sports activities. Trained assistants are available. Formerly PE 50a-d.

Recommended Prerequisite: Any physical limitation.

## General Activities

2 UNITS

P. E. 1a-d AEROBIC CONDITIONING 1 UNIT Hours: .5 Lecture 1.5 Activity

A cardiovascular conditioning class with a secondary emphasis on calisthenics for strength and toning. Exercises are done to music. Fitness concepts are covered with different techniques introduced each semester. Formerly PE 86a-d.

## P.E. 3a-d PAR COURSE TRAINING/ 1 UNIT JOGGING FOR AEROBIC FITNESS

Hours: 4 Activity

Par Course Jogging for Aerobic Fitness is designed for students who desire to improve their aerobic fitness. Each student will demonstrate through par course jogging 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.

## PHYSICAL EDUCATION

## **General Activities**

vanced skills in 1 ebali will be taug i <b>lsites:</b> Reco u <b>ssion</b> ny student intere	tents who wish to hrowing, fielding, int and practiced. mmendation of 1 UNIT	Designed for the stud In history and strate the rules, scoring a compete in class p strategy for single recommended for P.E. 21a-d SOCCE Hours: 5 Lectu
<b>ussion</b> ny student intere		recommended for P.E. 21a-d SOCCE
ny student intere	1 UNIT	
		1.5 Activ
aged to take this wides yet one mo	ore way a student	This course is design soccer; both exper the game are encor game are thorough and provides yet physically fit through PE 4a-d.
	1 UNIT	P.E. 22a-d ADVAN Hours: .5 Lectu
ussion		1.5 Activ
nt will understai	nd and develop all, application of	A physical educa advanced softball batting and pitchin <b>Recommended</b> department.
i	I UNIT	P.E. 25a-d BASIC S
ssion	•	Hours: .5 Lecture 1.5 Activ
	•	Basic Swimming is aquatics. It is an ap who wants to les swimming stroke elementary backstr
	1 UNIT	Formerly PE 34a-d.
hu alore la galffun	damentale Freue	P.E. 26a-d SWIMM Hours: .5 Lectu
ic fundamental	s of playing golf,	1.5 Activi A general introduc appropriate class f
	1 UNIT	learn acquatic fun instruction in front c sidestroke, breaststr
The student will nentals of playing ame of golf. Forr	understand and g golf, application nerly PE 37a-d.	P.E. 30a-b BEGINN Hours: .5 Lectu 1.5 Activi Beginning Tennis is a who wishes to devel the game of tennis covered, Formerly
	ovides yet one monough competiti sussion ents who wish ta ont will understand of playing football. For ission cises to improve p e: Referral from the ouffundamentals the game. Form ouffundamentals the student will mentals of playing ame of golf. For	ussion         ents who wish to gain advanced         nt will understand and develop         of playing football, application of         ne of football. Formerly PE 42a-d.         in UNIT         ussion         class to improve power and speed         e: Referral from the Department.         DLF       1 UNIT         ussion         ty class in golf fundamentals. Focus         sic fundamentals of playing golf,         the game. Formerly PE 8a-d.         DLF       1 UNIT

## PHYSICAL EDUCATION

## **General Activities**

ETBALL re/Discussion ltv

dent who is a novice and desires knowledge gy of racquetball. The student will learn all and basic strokes to successfully play and participation. The student will learn basic e and doubles play. This class is not the highly skilled player. Formerly PE 23a-d.

#### R

re/Discussion ity

ed for any student interested in the sport of rlenced players and those not familiar with uraged to take this class. Regulations for this niy addressed. Soccer is an enjoyable sport one more way a student can become h competition. This class is coed. Formerly

### CED SOFTBALL re/Discussion ity

ition activity class for students to gain skills. Advanced skills in throwing, fielding, ng a softball will be taught and practiced. Prerequisites: Recommendation of

### WIMMING re/Discussion ity

a general introduction to swimming and propriate class for the beginning swimmer arn aquatic fundamentals and received instruction in from crawl, back crawl, roke, sidestroke, breaststroke and butterfly.

## ING FOR FITNESS re/Discussion ity

tion to swimming and aquatics. It is an for the beginning swimmer who wants to damentals and receive swimming stroke rawl, back crawl, elementary backstroke, roke and butterfly. Formerly 9a-d.

### ING TENNIS re/Discussion

itv

an activity course designed for the student lop an understanding and appreciation for s. Basic skills, strategies and rules will be PE 10a-d.

## **1 UNIT**

**1 UNIT** 

**1 UNIT** 

**1 UNIT** 

**1 UNIT** 

**1 UNIT** 

## PHYSICAL EDUCATION

## **General Activities**

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

## 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. 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.

P.E. 35a-b ADVANCED VOLLEYBALL 1 UNIT Hours: .5 Lecture/Discussion 1.5 Activity

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. 36 INTRODUCTION 2 UNITS TO PHYSICAL EDUCATION Hours: 2 Lecture/Discussion

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.

## PHYSICAL EDUCATION

## **General Activities**

## P.E. 41a-d MARCHING BAND Hours: 6 Lab Cross Ref: MUSIC 75a-d Materiais Fee: \$10.00

2 UNITS

**1UNIT** 

This 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, railies and athietic 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.

## P.E. 102a-d NON-IMPACT AEROBICS 1 UNITS Hours: .5 Lecture/Discussion Per Week 1.5 Activity Per Week

Non-impact aerobics is designed specifically for the student who is overweight or just beginning a fitness program. Aeorobic exercise routines are done to slower paced music incorporating movements where no jumping or bouncing takes place. The non-impact aerobic phase is then followed by a series of muscle toning exercises.

## P.E. 104a-b WEIGHT TRAINING

Hours: .5 Lecture/Discussion 1.5 Activity Per Week

This course is designed as a general introduction to the concepts of strength and body building. The course will focus on machines, barbeils and dumbbells as the vehicle for development of the  $\sqrt{}$  major muscle groups.

## P.E. 105a-b ADVANCED STRENGTH AND BODY 2 UNITS BUILDING PRINCIPLES 2

Hours: 1 Lecture/Discussion

**3 Activity Per Week** 

This course is designed for the student who seeks further knowledge in the scientific and theoretical components of resistance training. 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 muscle groups. Proper mechanics of exercise and safety factors are stressed.

Recommended Prerequisites: PE 104a-d or recommendation by the department.

## P.E. 117 THEORY OF FOOTBALL

2 UNITS

## Hours: 2 Lecture/Discussion

This course is designed for the student with an interest in coaching football. Philosophy fundamentals, strategies, and rules will be emphasized. Formerly PE 79a-b.

## PHYSICAL EDUCATION

## **General Activities**

#### NUTRITION FOR P.E. 119 2 UNITS FITNESS, EXERCISE, AND SPORTS Hours: 2 Lecture/Discussion

## Cross Ref: Nutr/Food 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 PE 29.

#### P.E. 127 **BASIC LIFEGUARDING 1UNIT** .5 Lecture/Discussion Hours: 1.5 Activity Per Week

The Basic Lifeguarding course provides the minimum basic knowledge and skills necessary for a person to qualify as an entry level lifeguard. This course also helps meet the prerequisite for the Water Safety Instructor (WSI) course.

### Prerequisites:

1-American Red Cross Standard First Aid (to be included in course.)

2-Skills Test: Swim 500 yards continuously using each of the following strokes for at least 50 yards each-crawl, breaststroke, elementary backstroke and sidestroke; surface dive to a minimum depth of 9 feet and bring a 10 lb. diving brick to the surface; surface dive to a minimum of 5 feet and swim underwater for a minim of 15 yards; tread water for one minute.

#### P.E. 128 WATER SAFETY INSTRUCTOR **2 UNIT** Hours: 2 Lecture/Discussion

The purpose of the Water Safety Instructor course is to train Instructor candidates to teach the American Red Cross Water Safety courses. Upon successful completion of the course the student will be able to teach the following courses: Infant and Preschool Aquatic Program; Longfellow's Whales Tales Educational Program; Progressive Swimming Courses (Beginners, Advanced Beginners, Intermediate Swimmer and Advanced Swimmer; Basic Water Safety; Emergency Water Safety.) Prerequisites/Co-requisites:

1-Students must be at least 17 years old.

2-Students must possess an Instructor Candidate Training Certificate (to be included in course.)

3-Students must possess a current Emergency Water Safety Certificate or Lifeguard Training Certificate.

**1UNIT** 

Students must pass WSI pretest (written & skills).

#### P.E. 133a-d CONDITIONING FOR TENNIS Hours: .5 Lecture/Discussion 1.5 Activity Per Week

Conditioning for Tennis is a 1 unit activity course designed for Improvement of a tennis player's skill through dynamic resistance exercises and anaerobic training.

Recommended Prerequisites/Co-requisites: PE 30 and/or recommendation by department.

## PHYSICAL EDUCATION

2 UNITS

1 UNIT

**General Activities** 

#### P.E. 137 INTRODUCTION AND THEORY OF COACHING

Hours: 2 Lecture/Discussion

Designed for the student wishing to gain knowledge of coaching individuals and team sports. Common problems and solutions will also be covered. Formerly PE 71.

Recommended Prerequisite: English 251 or permission of department.

#### P.E. 142a-d VARSITY PERFORMANCE 2 UNITS Hours: 2 Lecture/Discussion 4 Activity

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.

Prerequisite: The member is chosen by election (judges) in order to become a part of the C.O.S. Pep Squad.

#### P.E. 243 a-dVARSITY PERFORMANCE\* **1 UNITS** Hours: 4 Activity

Conditioning for Varsity Performance (Pep Sauad) is designed to enhance the performing skills of the Pep Squad by improving cardiovascular output and muscular endurance through aerobic training and conditioning of the body.

Prerequisite: The member is chosen by election (judges) in order to become a part of the COS Pep Squad. The member/ student must also meet State Athletic eligibility requirements.

#### P.E. 301a-d AQUA CALISTHENICS Hours: .5 Lecture/Discussion 1.5 Activity

Aqua Callsthenics is a P.E. activity course designed for students who wish to develop, maintain or improve their cardiovascular fitness level in an aquatic environment. No swimming skills are necessary.

#### P.E. 495 FITNESS FOR SENIOR CITIZENS **O 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.

#### PHYSICAL EDUCATION

#### <u>Hygiene</u>

#### HYGIENE 1 PERSONAL HYGIENE 2 U Hours: 2 Lecture/Discussion

2 UNITS

2 UNITS

A general course including the facts necessary formaintenance of physical and mental health. Special emphasis is given to the use of drugs in our society including alcohol, tobacco, stimulants, analgesic narcotics, and "over the counter" drugs. Total fitness, diet and weight control, environmental health safety, sexually transmitted diseases and effective family living are among other subjects studied.

#### HYGIENE 3 STANDARD FIRST AID Hours: 2 Lecture/Discussion

Hygiene 3 covers the American Red Cross Standard First Ald course, including Cardiopulmonary Resuscitation (CPR), Safety Factors in Daily Living, Emergency Treatment for Various Types of injuries and Emergency Childbirth. Certificate will be Issued with a fee paid to the American Red Cross when requirements are met.

#### HYGIENE 7 SPORTS HEALTH 2 UNITS Hours: 2 Lecture/Discussion

Using sport as the vehicle, this class covers the same basic subject matter as hygiene 1. The effects of pain and stress on performance are studied. Diet, weight control, fitness and exercise, genetics, and their influence on training are examined. The consequences of using alcohol, tobacco and anabolic steroids and other drugs are explained in terms of their effects on human performance. An understanding of the anatomy of common injuries and their treatment and prevention is developed. This course meets the hygiene requirement.

HYGIENE 104	DRUGS AND SOCIETY	2 UNITS	
Hours:	2 Lecture/Discussion 1 Lab		
This course covers the broad spectrum of drug use in our society. The material is constantly updated to reflect the current interests of students and new information made available by the scientific community. This course meets the Hygiene requirement. Formerly HYGIENE 4.			
Intercollegiate Athletics			
IA 1a-d	INTERCOLLEGIATE ATHLETICS-BASEBALL - MEN'S	2 UNITS	
Hours:	2 Lecture/Discussion 8 Activity		
Intercollegiate 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.

Recommended Prerequisites: P.E. 12a-d.

## PHYSICAL EDUCATION

**1 UNIT** 

2 UNITS

#### Intercollegiate Athletics

IA 2a-d INTERCOLLEGIATE BASKETBALL - MEN Hours: 1 Lecture/Discussion 4 Activity

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 3a-d	INTERCOLLEGIATE BASKETBALL - WOMEN	1 UNIT
Hours:	1 Lecture/Discussion 4 Activity	

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.

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	e who is interested in
	na in intercollegiate Cross Country	

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 5a-d INTERCOLLEGIATE 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.

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Formerly PE 52a-d.

#### **COURSE DESCRIPTIONS** PHYSICAL EDUCATION PHYSICAL EDUCATION Intercollegiate Athletics Intercollegiate Athletics IA 11a-d INTERCOLLEGIATE **3 UNITS** IA 6a-d 2 UNITS INTERCOLLEGIATE **ATHLETICS - TENNIS - MEN'S ATHLETICS - FOOTBALL** Hours: 2 Lecture/Discussion 2 Lecture/Discussion Hours: 8 Activity 8 Activity Designed for the student who wishes to play competitive tennis This course is designed for the student/athlete to compete in on an intercollegiate tennis team competing against intercollegiate varsity football at the community college level. teammates and other community colleges. The student/athlete should not schedule any other classes from Formerly PE 54a-d. 2 p.m. through 6:30 p.m. Monday-Friday. Formerly PE 50a-d. Recommended Prerequisite: P.E. 15a-d and permission of the department. 2 UNITS IA 7a-d INTERCOLLEGIATE ATHLETICS - GOLF IA 12a-d INTERCOLLEGIATE 2 UNITS Hours: 2 Lecture/Discussion **ATHLETICS - TENNIS - WOMEN'S** 8 Activity Hours: 2 Lecture/Discussion Designed for the student/athlete who wishes to play competitive 8 Activity golf on an intercollegiate golf team competing against This course is designed for the female student who wishes to teammates and other community colleges. play competitive tennis on an intercollegiate tennis team Formerly PE 57a-d. competing against teammates and other community college Prerequisites: By permission of department. students. Formerly PE 54a-d. Recommended Prerequisites: P.E. 32a-d and by permission of the department. IA 8a-d INTERCOLLEGIATE 2 UNITS ATHLETICS - WOMEN'S SOFTBALL Hours: 2 Lecture/Discussion IA 13a-d INTERCOLLEGIATE **2 UNITS** 8 Activity ATHLETICS - TRACK AND FIELD - MEN'S This course is designed for the female student interested in 2 Lecture/Discussion Hours: competing in intercollegiate softball. The course involves daily **8 Activity** practices as well as competition at the collegiate level at This class is designed for the athlete who is interested in league games and various tournament play. Intercollegiate competing in intercollegiate track and field. The course involves softball not only allows the student/athlete to better herself as daily practices as well as participation in track and field meets. an individual athlete, but contributes to team effort as well. Each meet for the men consists of 12 running events and 8 field Formerly PE 61a-d. events; therefore all work-outs are geared towards these Prerequisite: Permission from the department. 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 team effort as well. Formerly PE 53a-d. INTERCOLLEGIATE 2 UNITS IA 9a-d ATHLETICS - SWIMMING - MEN'S Hours: 2 Lecture/Discussion 8 Activity IA 14a-d **INTERCOLLEGIATE ATHLETICS -2 UNITS** This class is designed for the student/athlete who is interested in **TRACK AND FIELD - WOMEN'S** competing in Intercollegiate swimming. The course consists of 2 Lecture/Discussion Hours: dally practices and competition in scheduled meets. The goal 8 Activity of the program is to prepare participants to compete This class is designed for the athlete who is interested in successfully at the junior college level. Formerly PE 55a-d. competing in intercollegiate track and field. The course involves dally 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 2 UNITS IA 10a-d INTERCOLLEGIATE Individual events as well as general physical fitness. ATHLETICS - SWIMMING - WOMEN'S Intercollegiate track and field not only allows the student to 2 Lecture/Discussion Hours: better herself as an individual athlete, but contribute to a team 8 Activity effort as well. Formerly PE 53a-d. This class is designed for the student/athlete who is interested in competing in intercollegiate swimming. The course consists of daily practices and competition in scheduled meets. The goal of the program is to prepare participants to compete successfully at the junior college level. Formerly PE 55a-d

## PHYSICAL EDUCATION

#### Intercollegiate Athletics

A 15a-d INTERCOLLEGIATE 2 UNITS WATER POLO Hours: 2 Lecture/Discussion 8 Activity

This class is designed for the student/athlete who is interested in competing in Intercollegiate Water Polo. The course consists of daily practices and competition in scheduled games. The goal of the program is to prepare interested student/athletes to successfully compete at the junior college level. Formerly PE 60a-d.

IA 16a-d INTERCOLLEGIATE ATHLETICS 2 UNITS VOLLEYBALL - WOMEN'S Hours: 2 Lecture/Discussion 8 Activity Designed for the female student who wants to continued her volleyball competition at an intercollegiate level. The course

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.

#### **Recreation**

REC<sup>1</sup>

3 UNITS

TO COMMUNITY RECREATION Hours: 3 Lecture/Discussion

INTRODUCTION

Philosophical, theoretical and historical approach to recreation and leisure services in contemporary American society. For the student who wants to develop a personal philosophy of leisure through education, information and simulation. CAN REC 2 **Recommended prerequisite:** Eligibility for English 1.

#### Sports Medicine

 SPORTS
 THE CARE AND
 3 UNITS

 MED 40
 PREVENTION OF ATHLETIC INJURIES

 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.

## PHYSICAL EDUCATION

#### Sports Medicine

SPORTS **CONCEPTS IN 3 UNITS HEALTH AND FITNESS** MED 60 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 MEDICINE. **SPORTS** 2 UNITS MED 70 FALL SPORTS 1 Lecture/Discussion Hours: 4 Lab Exposure to Immediate recognition and treatment of sports Injuries unique to fail 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** 1 Lecture/Discussion Hours: 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 ald in healing of the body and returning the athlete to competition. Recommended Prerequisite: Sports Medicine 40, Hyglene 3 SPORTS **2 UNITS 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 hands-on experience and will be able to apply different techniques in the treatment of Injuries. Recommended Prerequisites: Sports Medicine 40, Hyglene 3, Sports Medicine 70. SPORTS **ADVANCED SPORTS 2 UNITS** MED 73 **MEDICINE, SPRING SPORTS** 1 Lecture/Discussion Hours: 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 71,

Hyglene 3.

#### PHYSICAL SCIENCE

PHYS SCI 12 INTRODUCTION TO PHYSICAL SCIENCE 3 UNITS

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
Hours:	3 Lecture/Discussion 2 Lab

**3 UNITS** 

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. Not open to students with credit in Physical Science 350 or Physical Science 12.

**Recommended Prerequisite:** Eligible for Math 230 and completion of English 1.

PHYS SCI	FUNDAMENTALS OF	3 UNITS
350	PHYSICAL SCIENCE	
Hours:	<b>3 Lecture/Discussion</b>	
	2 l ab	

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

4 UNITS

PHYSICS 5 PHYSICS FOR 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.

Prerequisites: Completion of Math 75 with a grade of "C" or better.

#### PHYSICS

#### PHYSICS 6 PHYSICS FOR SCIENTISTS AND ENGINEERS Hours: 4 Lecture/Discussion 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.

**Prerequisites:** Completion of Physics 5 with a grade of "C" or better.

#### PHYSICS 7 PHYSICS FOR SCIENTISTS AND ENGINEERS Hours: 4 Lecture/Discussion 2 Lab

**4 UNITS** 

**4** UNITS

This is the third semester of a three semester introductory calculusbased 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 20 GENERAL PHYSICS Hours: 4 Lecture/Discussion 2 Lab

4 UNITS

**4 UNITS** 

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.

**Prerequisites:** 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 Hours: 4 Lecture/Discussion 2 Lab

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. Coregulsite of Math 62 or equivalent.

### PLANT SCIENCE

PLNT SCI 1	INTRODUCTION TO CROP SCIENCE	3 UNITS	<b>PLNT SCI</b> 111	CITRUS PRODUCTION	3 UNITS
Hours:	3 Lecture/Discussion 1 Lab		Hours:	3 Lecture/Discussion	
Includesa	survey of crop production in overview of crop area and et conditions, plant taxonom	duses, current economic	historical o requireme varieties a citrus regi	Importance of the citrus in development, areas of prod nts and citrus climatology, cit nd rootstocks. Critical evalua- lons around the world. C ent, nursery practices, tree r	duction, environmental tusbotany, commercial ation and comparison of Drchard planning and
PLNT SCI 12 Hours:	FRUIT AND NUT TREE PRODUCTION 3 Lecture/Discussion	3 UNITS		ontrol, irrigation and fertilizati oting. Formerly PLNT SCI 14.	on, pruning, harvesting,
Basic cult	1 Lab Ictory course in California fruit ural and management pra ts are included in this course	ictice in nut, stone, and	<b>PLNT SCI</b> 113 Hours:	GRAPE AND VINE PRODUCTION 3 Lecture/Discussion 1 Lab	3 UNITS
•	anded Prerequisites; Plaint So		economic wine grap	I tab Is a survey of the grape indus s with a study of the cultural e production in California. F inded Prerequisite: Plant Sci	practices of table and Formerly PLNT SCI 15.
PLNT SCI 102	ROW CROPS	3 UNITS		;	
Hours:	3 Lecture/Discussion 1 Lab			POLITICAL SCIEN	NCE
crops incl Joaquin V	iction principles and manag luding cotton, corn, and alley. Formerly PLNT SCI 2. anded Prerequisites: Plant Sc	sugar beets in the San	Hours: An introdu	FEDERAL, STATE, AND LOCAL GOVERMENT 3 Lecture/Discussion uction to the principles and local government, with part	
<b>PLNT SCI</b> 103	CEREAL AND OIL CROPS	3 UNITS	Constitutio governme	on of the United States an ints of California, CAN GOV	d the state and local T 2.
Hours:	3 Lecture/Discussion 1 Lab			<b>nded Prerequisite:</b> Eligible fo	or English 1.
Including Topics inc	e covers the production pa sorghums and oil crops in t slude fundamental taxonom including tillage, planting	the San Joaquin Valley. ny, botany and cultural	POLI SCI 5 Hours:	H FEDERAL, STATE AND LOCAL GOVERNMEI 3 Lecture/Discussion 1 Honors Colloguium	4 UNITS NT

Th Ine To practices including tillage, planting, irrigation, pest control, and harvesting. Formerly PLNT SCI 5.

Recommended Prerequisites: Plant Science 1.

PLNT SCI 104	FORAGE CROPS	3 UNITS
Hours:	3 Lecture/Discussion	
	1 lab	

A study of the common for age crops: alfalfa, slages, permanent pastures, and natural ranges. Cultural practices to be studied will include: land preparation, irrigation needs, fertilization, seeding rates, methods of utilization, grazing sliage or dry hay, and harvesting. Formerly PLNT SCI 3.

PLNT SCI	WEEDS AND WEED	3 UNITS	
105 Hours:	CONTROL 3 Lecture/Discussion	· .	
<b>T</b> I-1	1 Lab	 	

This course covers identification, cultural, chemical, and blological control or prevention of the major weeds affecting crops and livestock in the Tulare-Kings counties area. Formeriv PLNT SCI 4.

POLI SCI 7 INTRO TO MASS **3 UNITS COMMUNICATIONS** 

#### Hours: 3 Lecture/Discussion **CROSS REF: Journalism 7**

A survey course covering all media of mass communications, newspapers, radio, television, magazines, book publishing, flims, 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 monopology. The course focuses on the interrelationship of mass media and soclety. CAN JOURN 4

An introduction to the principles and problems of national,

state and local government, with particular emphasis on the

Constitution of the United States and the state and local governments of California. In addition, 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. Prereauisite: Acceptance in the Honors Program. Recommended Prerequisite: Completion of English 1.

PLANT SCIENCE

#### PSYCHOLOGY

#### PSYCH 1 **GENERAL PSYCHOLOGY** Hours: 3 Lecture/Discussion

**3 UNITS** 

**3 UNITS** 

**3 UNITS** 

This 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 3 Lecture/Discussion** Hours:

A scientific exploration and application of the psychological basis of people's interactions with one another and the way thoughts, feelings and actions 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.

Recommended Prerequisite: Eligibility for English 1

PSYCH 10 HUMAN SEXUALITY **3 UNITS 3 Lecture/Discussion** Hours: A comprehensive introduction to the biological, psychological

and sociocultural aspects of human sexual behavior. Prerequisites: Psychology 1.

Recommended Prerequisite: Eligibility for English 1

#### PSYCH 34 ABNORMAL PSYCHOLOGY **3 UNITS** Hours: 3 Lecture/Discussion

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. Recommended Prerequisite: Psychology 1.

#### **PSYCH 39 CHILD DEVELOPMENT** Hours: 3 Lecture/Discussion **CROSS REF: Child Dev 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. CAN HEC 14

## **PSYCH 130 INTRODUCTION** Hours.

## TO BEHAVIOR MODIFICATION

3 Lecture/Discussion This semester course is deslaned 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

**3 UNITS** 

**3 UNITS** 

**3 UNITS** 

**3 UNITS** 

3 Lecture/Lab Hours:

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** 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 dally 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.



#### **REAL ES REAL ESTATE PRINCIPLES** 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 are 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 FINANCE** REAL ES 141

#### Hours: 3 Lecture/Discussion

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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 Prereaulsites: Real Es 140

#### **REAL ESTATE**

**3 UNITS** 

142 OF REAL ESTATE Hours: **3 Lecture/Discussion** 

LEGAL ASPECTS

REAL ES

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 aimed 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

#### **REAL ES REAL ESTATE ECONOMICS 3 UNITS** 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 3 UNITS** 145

#### Hours: **3 Lecture/Discussion**

This course is an introductory course in basic residential appraisai 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 Prerequisite: Reat Es 140.

# SIGN LANGUAGE STUDIES

**3 UNITS** SIGN **BEGINNING AMERICAN** LANG 101 SIGN LANGUAGE 1 Hours: **3 Lecture/Discussion** 

Students with no prior knowledge 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 covers the first half of level one of the **Slanina 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 LANGUAGE STUDIES

#### 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 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 so that students can function comfortably in a wide variety of situations 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.

### SOCIOLOGY-

SOC 1 INTRODUCTION TO SOCIOLOGY

**3 UNITS** 

**3 UNITS** 

**3 UNITS** 

## Hours:

3 Lecture/Discussion

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.

Recommended Prerequisite: Eligibility for English 1.

SOC 2 THE SOCIOLOGY OF **3 UNITS** SOCIAL PROBLEMS Hours: 3 Lecture/Discussion

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 liness, 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 **3 Lecture/Discussion** Hours:

**3 UNITS** 

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 SCIENCES

#### SOC SCI AMERICA 276

#### **3 UNITS**

#### **3 Lecture/Discussion** Hours:

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 1 ELEMENTARY SPANISH 1 Hours: 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 billingual education or any field which involves Spanish.

#### SPANISH 2 ELEMENTARY SPANISH 2 4 Lecture/Discussion Hours:

**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: Spanish 1 or two years of high school Spanish or permission of department.

#### SPANISH 3 INTERMEDIATE SPANISH 3 **4 UNITS** 4 Lecture/Discussion Hours:

Spanish 3 is an intermediate course in a four-course series. It teaches students to communicate on a sophisticated level, both orally and in writting. It builds on concepts learned in Spanish 1 and 2. It also improves student's reading ability and provides dialogue on cultural topics.

Prereguisites: Spanish 2 or three years of high school Spanish or permission of the department.

#### SPANISH 4 INTERMEDIATE SPANISH 4 Hours: 4 Lecture/Discussion

**4 UNITS** 

Spanish 4 Is the most advanced course in this four-course series. It teaches students 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: Spanish 3 or permission of the department.

## **SPANISH**

#### SPANISH **HISPANIC LITERATURE** 12

#### 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 BILINGUAL STUDENTS** 22 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.

Prereaulsite: Students should have a bilingual background as well as meet the prerequisites for Spanish 2.

#### **SPANISH SPANISH 3 FOR 4 UNITS BIUNGUAL STUDENTS** 23 4 Lecture/Discussion Hours:

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.

#### **SPANISH INTERMEDIATE SPANISH**

**4 UNITS** 

#### 124 Hours:

4 Lecture/Discussion Cross

#### **SPANISH 4 FOR BILINGUAL STUDENTS** Listed:

A continuation of Spanish 23 with a grade of "C" or better or permission of the Spanish Department.

Recommended Prerequisites/Co-requisites: Completion of Spanish 23 with a grade of "C" or better or permission of the Spanish Department.

#### **SPANISH CONVERSATIONAL SPANISH I 3 UNITS** 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 skillis, Very basic grammar points will be touched upon. Formerly SPANISH 50.

**3 UNITS** 

#### SPANISH

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 II 3 UNITS** 352

#### Hours: 3 Lecture/Discussion

This is the first 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 52.

Prerequisites: Conversational Level II recommended, or permission of department.

SPANISH	CONVERSATIONAL SPANISH IV	<b>3 UNITS</b>
353		

#### **3 Lecture/Discussion** Hours:

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	COURT INTERPRETING	<b>3 UNITS</b>
360a-b		*
Hours:	3 Lecture/Discussion	1 I
	1 Activity	

Spanish language equivalents to American legal terminology is presented in an overview of procedures, common misdemeanors and common felonles. 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

1-4 UNITS

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.

### SPECIAL TOPICS

#### SPEC **SPECIAL TOPICS TOPICS 299**

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. Credit in Special Topics 299 Is non-transferable.

SPEECH

#### SPEECH 1 FUNDAMENTALS OF PUBLIC SPEAKING Hours:

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 3 ORAL INTERPRETATION **3 UNITS** Hours: 3 Lecture/Discussion

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

**3 UNITS** 

1-4 UNITS

**3 UNITS** 

3 Lecture/Discussion Hours:

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. CAN SPCH 8. Recommended Prerequisite: Eligibility for English 1,

SPEECH	ARGUMENTATION	<b>3 UNITS</b>
105	AND DEBATE	
Hours:	3 Lecture/Discussion	

Speech 5 is an Introductory course in augmentation and debate. This course covers research into, and critical analysis of, major public issues. This course will provide practice in persuasive speaking and formal debate, with emphasis on research, organization, logical proof, and effective presentation. The student will also learn how to understand and avoid failacies in persuasive presentations.

Recommended Prereaulsite/Co-reaulsites: Eliaibility for Enailsh 1, completion of Speech 1.

#### **THEATER ARTS**

#### SPEECH

SPEECH 108

#### **3 UNITS**

Hours: 3 Lecture/Discussion

**GROUP COMMUNICATION** 

An introductory coure in Group Communication. Almost all decision-making in our society occurs in groups, and this course provides the student with the knowledge of how the group process works. The student will learn group dynamics, structures, and the importance of maintaining structured agendas to complete task-oriented group discussions. The student will also learn how to use substantive conflict to meet both the needs of the group and the individual group members.

Recommended Prerequisite/Co-requisites: Eligibility for English 1.

#### SPEECH **BASIC FUNDAMENTALS** 301 **OF COMMUNICATION** 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 course involves the study and practice of everyday life. It provides communication skills in the specific areas of public speaking, group discussion, or al interpretation, and interpersonal 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**

**3 UNITS** 

**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. Prereauisite: Permission of the department.

#### THEATER ARTS

INTRODUCTION THTR TO THE THEATRE ART 1 Hours: **3 Lecture/Discussion** 

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** 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. CAN DRAM 8

**3 UNITS** 

**3 UNITS** 

**3 UNITS** 

#### **FUNDAMENTALS** THTR **OF ACTING II** ART 3 2 Lecture/Discussion Hours: 2 Lab

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.

#### THTR INTERMEDIATE ART 4 **ACTING I**

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** ART 5

#### 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.

## THEATER ARTS

THTR       REHEARSAL AND       3 UNITS         ART 11a-d       PERFORMANCE       Hours:       15 Activity         Hours:       15 Activity       (6 week course)         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.         Enroliment is for the duration of the audition, preparation, and presentation phases of production.	THTR       INTERMEDIATE       3 UNITS         ART 16a-b       STAGE LIGHTING       3 UNITS         Hours:       2 Lecture/Discussion       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.         Prerequisites:       Theatre Art 15a-b.       Additional hours required.
THTR       BEGINNING       3 UNITS         ART 13a-b       STAGECRAFT       Hours:       2 Lecture/Discussion         2 Lab       4 Actitivity         Materials Fee:       \$5.00         A survey ismade 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.	THTRADVANCED3 UNITSART 18a-bTHEATRE CRAFTSHours:2 Lecture/Discussion2 LabThis 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 16a- b.Recommended Prerequisites: D and 117a-b.
THTR       INTERMEDIATE       3 UNITS         ART 14a-b       STAGECRAFT       3 UNITS         Hours:       2 Lecture/Discussion       2 Lab         4 Activity       4 Activity       4 Activity         Materials Fee: \$5.00       5.00       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	THTRMUSICAL THEATRE2 UNITSART 20a-dPERFORMANCEHours:120 hour courseCROSS REF:Music 97a-d, Dance 41a-dExperience in drama and theatre through active participationin major musical and dramatic productions. Including trainingand experience in all facets of the theatre. Formerly THTR ART41a-d.
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. <b>Recommended Prerequisites/Co-requisites: Theatre Arts</b> 13a-b.	THTR       COSTUMING       3 UNITS         ART 112 a-b       Hours:       2 Lecture/Discussion         4 Lab       2 Activity         CROSS REF:       Fashion 112a-b         Materials Fee:       \$5.00         A study of the principles and practice of costume construction
THTRBEGINNING3 UNITSART 15a-bSTAGE LIGHTINGHours:2 Lecture/Discussion2 LabThis 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.	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.

THEATER ARTS

#### THEATER ARTS

THTR MAKEUP ART 117a-b Hours: 2 Lecture/Discussion 4 Lab 2 Activity CROSS REF: Fash 117a-b

#### Materials Fee: \$10.00

This course is designed to introduce the student to the basic techniques and materials of theatrical 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. Formerly THTR ART 17a-b.

# THTR THEATRE 2 UNITS ART 121a-d WORKSHOP Hours: Short Term Course - 2 Months

Activity: 15 hrs. per week for 2 months Experience in drama and theatre from Classical Greek through

19th Century. This will be accomplished through active participation in major dramatic productions. Includes training and experience in acting, costuming, make-up, set design, scenery, props, and lighting.

#### THTR AFRICAN-AMERICAN ART 160 THEATER

3 UNITS

**3 UNITS** 

**3 UNITS** 

## Hours: 3 Lecture/Discussion

This class is an interpretive survey of the history, impact and current direction of African-American Theatre. The contritions of African-American playwrights, actors and directors will be studied. Students will learn basic acting techniques and exercises through analyzing and presenting scenes in class.

## THTR MODELING

Hours: 3 Lecture/Discussion CROSS REF: Fashion 170

An introduction to the modeling industry and the roles of models and agencies. Instruction will include experience in basic fashion and photographic techniques; portfolio preparation; stage and photographic makeup; runway 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.

# **COURSE DESCRIPTIONS**

#### WELDING

WELDING BASIC METALCRAFT WELDING & 105a-c FORGING Hours: 3 Lecture/Discussion 3 Lab

#### Cross Ref: Art 105a-c

Instruction for women and men in metalcraft welding and forging techniques, basic tools for welded craft projects and sculptures, and construction of abstract shapes and finished sculptures.

#### WELDING OXY-ACETYLENE WELDING 4 UNITS 161 Hours: 3 Lecture/Discussion

#### 3 Lab

introduction in oxy-acetylene welding, braze welding, brazing, soldering, flame spraying, and flame cutting of common ferrous and non-ferrous sheet, plate, and pipe. The safe use of apparatus and personal safety in the welding environment is taught. Properties of ferrous materials and destructive testing of welding materials complete the program. Formerly WELDING 6A.

#### WELDING SHIELDED 162 METAL ARC WELDING Hours: 3 Lecture/Discussion 3 Lab

**4 UNITS** 

**3 UNITS** 

Instruction In machine flame cutting, shielded metal arc welding using E6010, E6011, E6013, E7014, and E7024 electrodes, air carbon arc cutting, weld testing, properties and identification of ferrous metals. It is recommended that you have prior course work or knowledge of the safe operation of the oxy-fuel gas cutting and welding apparatus. Formerly WELDING 6B. **Prereguisites:** Welding 161.

#### WELDING ADVANCED WELDING

171 Hours: 3 Lecture/Discussion 3 Lab 4 UNITS

#### Instruction in flame cutting (alternative fuel gases), shielded metal arc welding (low hydrogen electrodes), gas tungsten arc welding, gas metal arc welding (short circuit and spray transfer), plasma cutting, destructive testing of ferrous metals. It is recommended that you have prior coursework or knowledge of the safe operation of the oxy-fuel gas cutting and welding apparatus. Formerly WELDING 7A. **Prerequisites:** Welding 161 and 162.

#### WELDING

WELDING ADVANCED WELDING **4 UNITS** 

#### Hours: 3 Lecture/Discussion

3 Lab

172

Instruction in advanced gas tungsten arc welding, flux cord arc welding (gas shielded and self-shielded wires), modern shielding gas technology, non-ferrous filler metals, submerged arc welding, resistance spot welding, introduction to ferrous metalluray and destructive testing of weided materials. It is recommended that you have prior coursework or knowledge of the safe operation of the oxy-fuel gas cutting and welding apparatus, Formerly WELDING 7B. Prerequisites: Welding 171.

#### WELDING BLUEPRINT READING **3 UNITS** AND FERROUS METALLURGY 181 3 Lecture/Discussion Hours:

The fundamentals of blueprint reading relating to welded components and assemblies utilizing the American Welding Society weld symbol designations. Shop drawings and free hand sketches are interpreted. Ferrous metal properties, characteristics and identification groups are determined through destructive and non-destructive testing methods. Formerly WELDING 17.

WELDING	WELDING TOPICS	1-3 UNITS
364a-d		
Hours:	8 Lecture/ Discussion	

16 Lab A year round open entry and open exit course in a specific metals and plastics joining process. Within the lecture, various fusion processes will be demonstrated using laboratory training to develop a proficient skill level.

Recommended Prerequisites: Basic welding skills test to be given by the department in accordance with the subject topics covered. Qualify the student in safety procedures both personal and shop rules.

#### WORK EXPERIENCE

#### WRK **GENERAL WORK EXPERIENCE** EXP 191 Hours:

5-15 lab Student employed on a Job that is not directly related to their college major can 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 agree to evaluate the student's performance. Formerly WRK EXP 122a.

Prerequisite: Must take Leadership Training 1 concurrently.

#### WORK EXPERIENCE

#### WRK 1-3 UNITS GENERAL WORK EXPERIENCE EXP-192

#### Hours: 5-15 Lab

Students employed on a job 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 lob skills/knowledge. Formerly WORK EXP 122b.

Recommended Prerequisite: Must take Leadership Training 2 concurrently.

#### WRK OCCUPATIONAL COOPERATIVE 1-4 UNITS **EXP 193 EDUCATION/INTERNSHIP** Hours: 5-20 Lab

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	1-4 UNITS
EXP 194	EDUCATION/INTERNSHIP	
Hours:	1 Lecture/Discussion	
	5-20 Lab per week	·

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.

Prerequisite: Must take Leadership Training 2 concurrently or perform a designated coordinating activity.

#### WRK EXP 195 Hours:

1-3 UNITS

OCCUPATIONAL COOPERATIVE **EDUCATION/INTERNSHIP** 5-20 Lab

1-4 UNITS

This third semester offering is designed for students 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.

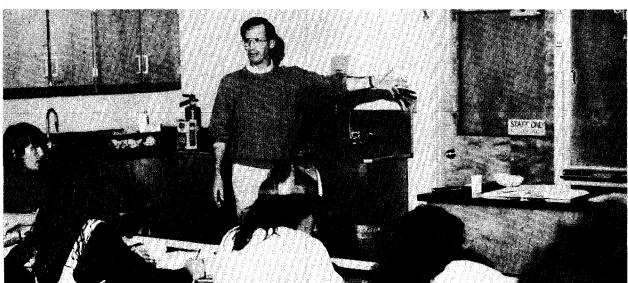
## WORK EXPERIENCE

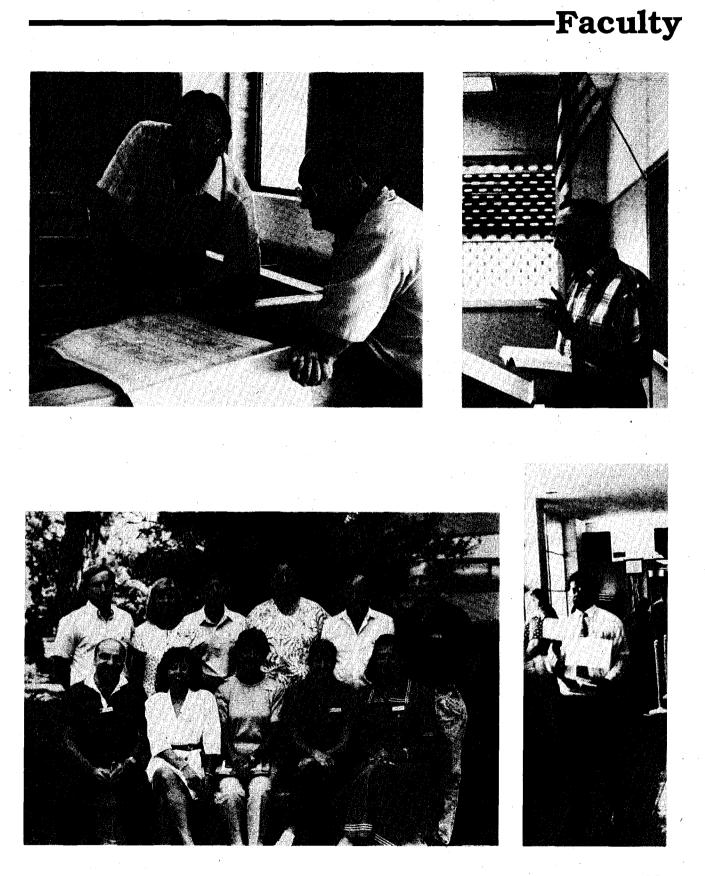
# WRKOCCUPATIONAL COOPERATIVE1-4 UNITSEXP 196EDUCATION/INTERNSHIP1-4 UNITSHours:5-20 Hours

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 Prerequisite:** Must complete Occupational Cooperative Education 193, 194, and 195.









## **Division Chairpersons**

**Bill M. Downes** Division of Agriculture

Marcy Hall Division of Consumer/Family Studies

> Jenny Glass Division of Business

> Marlene Taber Division of Fine Arts

Ken Broyles Division of Industry and Technology

Candace Byrne Division of Language Arts and Communications

Norma Freeborn Division of Nursing and Health Science Tracy Myers Division of Physical Education, Health and Athletics

Dorothea Trimble Division of Science Mathematics, and Engineering

> Waino Peterson Division of Social Sciences

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

AUDINO, VIRGINIA SUE CONSUMER FAMILY STUDIES A.B., California State University, Fresno

#### BADVAGANIAN, DENNIS BUSINESS

B.S., M.B.A., California State University, Fresno

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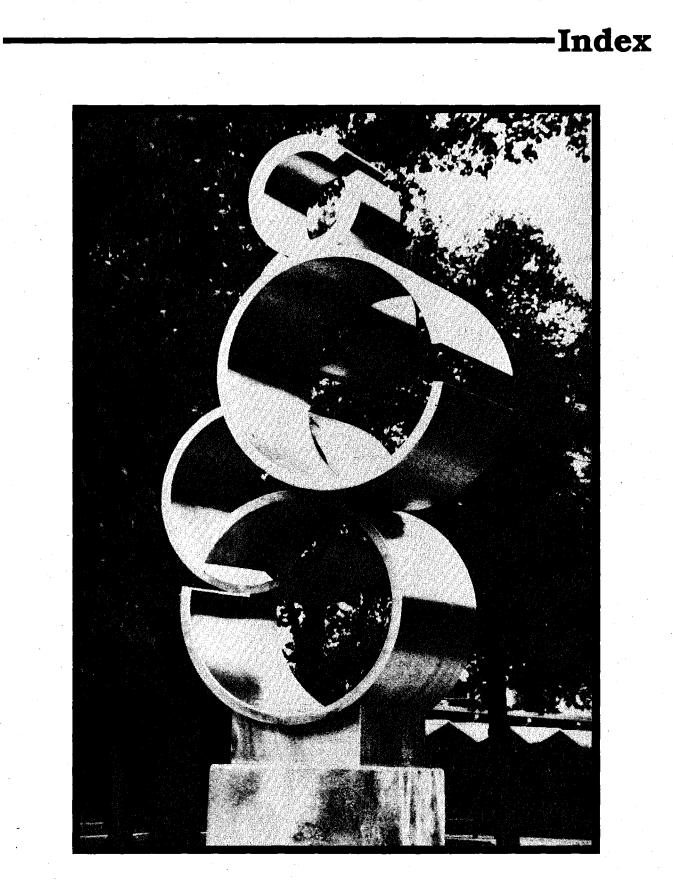
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