

College of the Sequoias



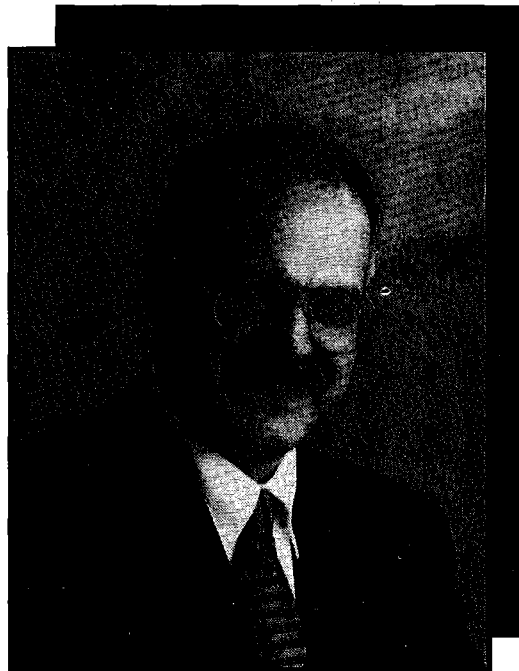
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College of the Sequoias

**Welcomes
You**



College of the Sequoias (COS) is part of this nation's largest system of higher education. In California alone 1.6 million students enroll in community colleges every year. COS now serves more than 10,000 students.

College of the Sequoias is proud of its tradition of serving students. COS is about people helping people. Our dedicated faculty and staff are committed to ensure that each student is given the opportunity of transferring to baccalaureate institutions or leaving COS prepared for the job market. COS provides a solid foundation for further study as well as the opportunity for life-long learning.

College of the Sequoias is committed to creating an environment that offers all students the freedom and encouragement to explore new avenues and possibilities and fostering a climate marked by recognition and respect for students, faculty, and staff.



Kamiran S. Badrkhan, Ph.D.
Superintendent/President

Proposition 187

The preliminary injunction regarding Proposition 187, issued March 15, 1995, remains in effect until further court notice; students who are noncitizens or who are not officially authorized by federal law to be present in the United States will not be prevented from seeking admission, enrolling in, continuing their enrollment in, or attending any California Community College. Students will only be asked to verify their immigration status for the sole purpose of determining residence status for tuition purposes (March 24, 1995, California Community College Chancellor's Office).

Notice

By order of the San Francisco Superior Court, community colleges and all other public postsecondary institutions have been prohibited from taking action to implement or enforce Sections 8 and 9 of Proposition 187, an initiative passed by the electorate on November 8, 1994. Pending further court order, this college will take no action to prohibit the admission, enrollment or attendance of any person who isn't a United States citizen or any person who isn't otherwise authorized by federal law to be present in the United States. Students and applicants will not be prohibited from attending or continuing their enrollment based on the provisions of Section 8 and 9 of Proposition 187. In addition, this college will take no action to determine the legal status of enrollees as such status relates to the implementation and enforcement of Proposition 187. Students and applicants will only be asked to verify their immigration status for the sole purpose of determining their residency status for tuition purposes. No information regarding any student or applicant will be transmitted to the U.S. Immigration and Naturalization Service (INS), directly or indirectly, pursuant to Sections 8 or 9 of Proposition 187.



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.

Student Right-to-Know Disclosure

The Student Right-to-know (SRTK) legislation (Public Law 101-542) requires an institution to produce and publicly disclose its graduate rate and transfer rate.

These two SRTK rates have been derived from the annual IPEDs/Graduation Rate Survey performed by the California Community Colleges Chancellor's Office and are available from the Dean, Student Services in Room 103A. Copies may also be requested by calling (559) 730-3879.

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 Rehabilitation Act of 1973 (pertaining to handicap), the Age Discrimination Act of 1975 (pertaining to age), and the Americans with Disabilities Act of 1990. 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:

Jenny Glass
Affirmative Action Officer and Title IX Coordinator
Donald Mast, Section 504 Coordinator
and ADA Compliance Officer
College of the Sequoias
915 South Mooney Boulevard
Visalia, California 93277
(209) 730-3700

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

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

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

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

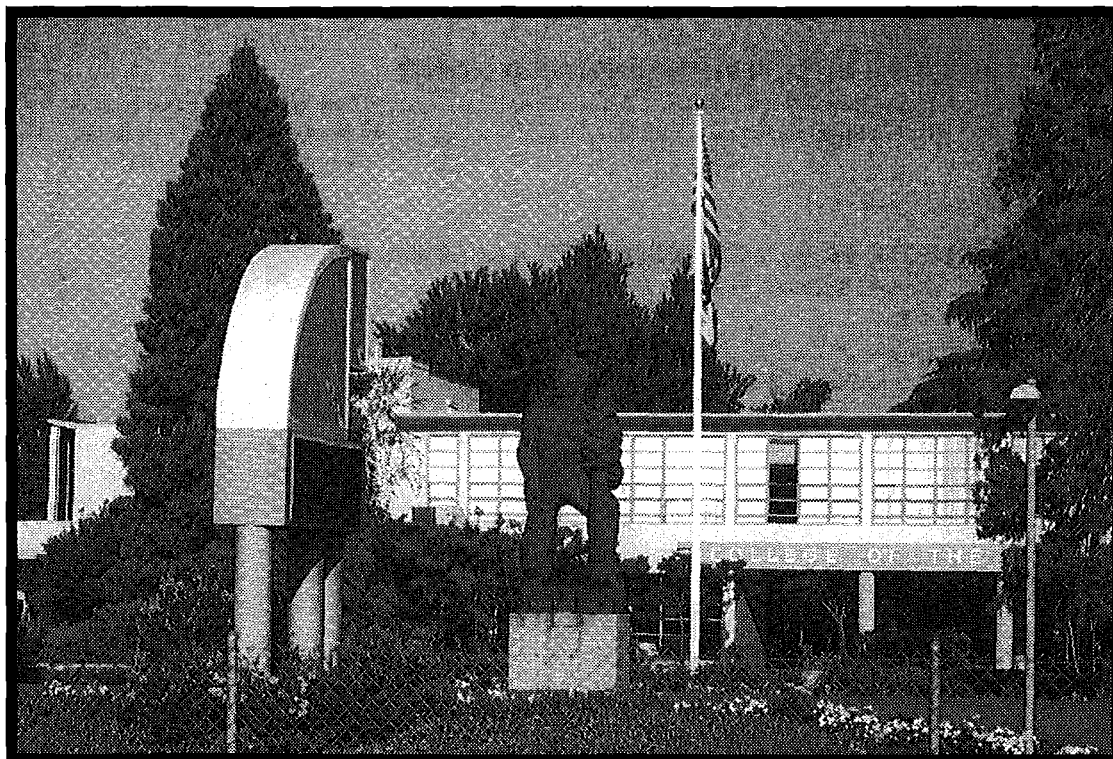
College of the Sequoias
is an equal opportunity-affirmative action employer.

2000-2001

Catalog and Announcement of Courses

College of the Sequoias

A Public Community College



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 accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, (3402 Mendocino Avenue, Santa Rosa, CA 95403 (707) 569-9177), an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. The College is an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education. It is listed in the Directory of the Western Association of Schools and Colleges and in the Accredited Institutions of Postsecondary Organizations, 1990-91, a publication of the American Council on Education.

The college is approved by the United States Immigration and Naturalization Service to accept international students and is approved for veteran training under both State and Federal laws.

COLLEGE OF THE SEQUOIAS COMMUNITY COLLEGE DISTRICT

**915 South Mooney Boulevard
Visalia, California 93277
(209) 730-3700**

Published by the Board of Trustees

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College of the Sequoias Foundation

College of the Sequoias and residents of the Central San Joaquin Valley are partners in progress, each relying upon the other for strength and support. Supported by members of our District, 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 scholarships, equipment and other critical needs. Donations can be given in a number of ways: cash, stock, real property, deferred gifts, memorials, matching gifts and scholarships.

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

Persons desiring to learn how they may contribute to the COS Foundation and the work of the College of the Sequoias are invited to contact Ms. Kristin Risner, Executive Director, COS Foundation at 730-3861.

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Dave Cargill
Cover graphics and maps

Gail Robinson
Cover Photographs

Gail Robinson
Catalog Design and Edit, Miscellaneous Photographs

Bill Schell
Miscellaneous Photographs

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See us on the World Wide Web at <http://sequoias.cc.ca.us>

Academic Calendar

Fall Semester, 2000

August 16, 1999 to December 19, 2000

July 24 - August 2	Fall 2000 Open Telephone Registration for Eligible Students
August 7	Last Day to Apply for Fall Full-Time Admission
August 7	Last COS Placement Test for Fall Full-Time Admission
August 7-11	Fall 2000 Walk-In Registration for High School Accelerates and all Eligible Students
August 14-15	Faculty/Staff Inservice
August 16	Fall 2000 Classes Begin
August 16-29	Late Telephone and Walk-In Registration/Program Changes With Instructor Add Codes
August 29	Last Day to Drop a Class Without a "W" and Receive a Refund
September 4	Labor Day Holiday (no classes)
September 29	Last Day to File for an Associate Degree for Fall 2000
October 27	Fall Final Drop Date
November 10	Veterans' Day Holiday (no classes)
November 22	Non-Duty Day for Faculty (no classes)--All Offices Open
November 23,24	Thanksgiving Day Holiday (no classes)
November 27-December 8	Spring 2001 Telephone Registration for Continuing Students
December 11-15	Spring 2001 Open Telephone Registration for all Eligible Students
December 13-19	Fall Final Exams
December 19	End of Fall 2000 Semester
December 19	Last Day to Make Up Incomplete "I" Grades for the Fall 1999 Semester
December 20-January 21	Recess Between Semesters

Spring Semester, 2001

January 22, 2001 to May 25, 2001

November 27-December 10	Spring 2001 Telephone Registration for Continuing Students
December 11-15	Spring 2001 Open Telephone Registration for all Eligible Students
January 3-12	Spring Open Telephone Registration for all Eligible Students
January 10	Last Day to Apply for Spring Full-Time Admission
January 10	Last COS Placement Test for Spring Full-Time Admission
January 15	Martin Luther King Day Holiday (No Registration)
January 16-17	Spring 2001 Walk In Registration for High School Accelerates and All Eligible Students
January 16-19	Faculty/Staff Inservice
January 22	Spring 2001 Classes Begin
January 22-February 2	Late Telephone and Walk In Registration/Program Changes With Instructor Add Codes
February 2	Last Day to Drop a Class Without a "W" and Receive a Refund
February 5	COS Scholarship Application Deadline
February 9	President's Day Holiday (no classes)
February 19	Washington's Birthday Holiday (no classes)
February 28	Last Day to File for an Associate Degree
March 2	Cal Grant Financial Aid Deadline for New and Transferring Students
March 30	Spring Final Drop Date
April 9-13	Spring Break (no classes)
April 30 - May 11	Fall 2001 Telephone Registration For Continuing Students
May 21-25	Spring Final Exams
May 25	Commencement and End of Spring Semester
May 25	Last Day to Make Up Incomplete "I" Grades for Spring 1999 Semester

About our college...

College of the Sequoias

College of the Sequoias is a two-year community college offering educational and enrichment programs for the residents of its district in Tulare and Kings Counties. The district was established in 1925 and moved to its current 55-acre site in 1940. In that 70 year history, College of the Sequoias has been led by only six chief executive officers.

In addition to the primary campus, COS conducts an agriculture program on a 200 acre farm, and has also purchased an additional 500 acres for a future farm site. COS offers general education coursework in nearby communities including a college center in the city of Hanford.

College Mission

Our primary mission at College of the Sequoias is to provide education and training which will afford our students the choices of either transferring to baccalaureate institutions or leaving College of the Sequoias prepared for the job market. By contributing to continuous workforce improvement, the College intends to advance California's economic growth and global competitiveness.

Our additional commitment is to provide the following:

- Developmental and remedial education and a wide range of student services for the successful attainment of educational and career goals.
- Self-supporting community education classes, contract education and training, and related services tailored to the human and economic development of our community.

Philosophy

College of the Sequoias believes that all individuals are innately valuable and entitled to develop their full potential; that a healthy and vigorous society benefits from an informed appreciation of the cultural, racial and socioeconomic variations among its members; that a democracy depends upon a critical, questioning and informed citizenry; and that the college programs serve the individual, the community and society.

Enrollment

College of the Sequoias' total student population is more than 9,000 and is comprised of the following: 46% Caucasian, 37% Hispanic, 4% Asian or Pacific Islander, 3% Black, 2% American Indian, and 1% Filipino; 7% are unidentified. The current trends reflect increased enrollment of women, minorities, students under twenty-one years of age, full-time students (12 units or more) and students who plan to transfer. Trends also reflect decreased enrollment of students who are thirty years of age or older, and extended day students.

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

Faculty and Staff

College of the Sequoias has 175 full-time faculty, some 233 adjunct faculty, 25 administrators and 201 classified employees--all of whom are dedicated to providing the students with the very best educational environment possible. Faculty members are selected not only for their academic qualifications and experience, but for their interest in maintaining close student-teacher relationships.

The District

The district is governed by a five-member Board of Trustees elected through a ward system within the boundaries of Tulare and Kings Counties. In addition to Visalia, the nearby towns of Corcoran, Hanford, Tulare and Woodlake are represented by those members.

The Community

College of the Sequoias is located in Visalia, California (in the County of Tulare), 185 miles north of Los Angeles and 225 miles south of San Francisco. In addition to easy access to the Giant Sequoias, residents of the district enjoy nearby Sequoias and Kings Canyon National Parks and two large lakes (Kaweah and Success) for boating and fishing. The Central Valley also features many fine golf courses. The Tulare County Symphony and the annual COS Musical are just two of the many performing and fine arts enjoyed, and practiced, by residents. The annual County Fair, held in the City of Tulare each fall, attracts world-renowned performers.

Over the last 15 years, the population of Tulare and Kings Counties has increased by almost 50% and now numbers 350,000 and 114,200, respectively. Although the district enjoys a retail and professional sector, Tulare County is the second most productive agricultural area in the nation, and the annual Farm Show is the largest of its kind in the world.

About our college...

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.

"The policy of this district is that, unless specifically exempted by statute or regulation, every course, course section, or class, reported for state aid, wherever offered and maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to the college(s) and who meets such prerequisites as may be established pursuant to regulations contained in Article 2.5 (commencing with Section 55200) of Subchapter 1 of Chapter 6 of Division 6 or Title 5 of the California Code of Regulations."

Regarding students who are noncitizens or who are not officially authorized by federal law to be present in the United States, but have applied for application at this college, please refer to our Position Statement on Proposition 187 on Page 2 of this catalog.

Programs and Services

Adult and Life-long 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.

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.

Community Services

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

Contract Education

The ability to assess an organization's needs and deliver job-specific knowledge to worker defines the mission of the Business and Community Education Center at College of the Sequoias. The Office hopes to forge new relationships between the private and public sectors in the central valley and beyond, using COS faculty members' vast cumulative experience and high level of expertise.

Employment Development

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

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.

Remediation

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

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.

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.

About our college...



College Facilities

Traditional facilities at the campus include lecture classrooms; science laboratories; computer laboratories in Art, English, Math, Business, and Nursing; a photography laboratory; a multipurpose gymnasium; a theater; an art gallery; an industrial and automotive technology complex; a library and media center; a learning resource center; administrative and Student Services offices; a Disabled Student complex; a student union, a college farm, a bookstore, and student activities office.

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

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

Child Development Center

The Child Development Center serves as a training laboratory for students in the Child Development Program, students going into the child care business, as well as parents and community members. The professionally staffed Child Development Center offers an exemplary early childhood education program. The facility is a state-of-the-art facility.

Farm

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 production. A complete horticulture facility provides students with practical landscape experiences while working in the unit during class laboratories or after hours at student work sites. The farm laboratory provides students with worksites in animal science, horse production, dairy, ornamental horticulture, floriculture, turf culture, crop production, vegetable gardening and soils.

Hanford Center

College of the Sequoias has a center at 12582 13th Road 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 include testing, orientation, counseling, registration, tutoring, and book sales. Call (559) 585-3933 for further information.

Off-Campus Sites

To make it easier for COS students to attend classes, the college offers regular accredited courses at nine off-campus locations within the district, including the Hanford Center.

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

CUTLER/OROSI

Cutler-Orosi Unified High School
418 Road 128

EXETER

Exeter High School
820 San Juan Avenue

FARMERSVILLE

Farmersville Senior Center

HANFORD

Hanford COS Center
12582 13th Road
Rooms: 1-9

LINDSAY

Lindsay High School
1701 East Tulare Road

TULARE

Tulare Union High School
755 East Tulare

Tulare Western High School
824 West Maple

WOODLAKE

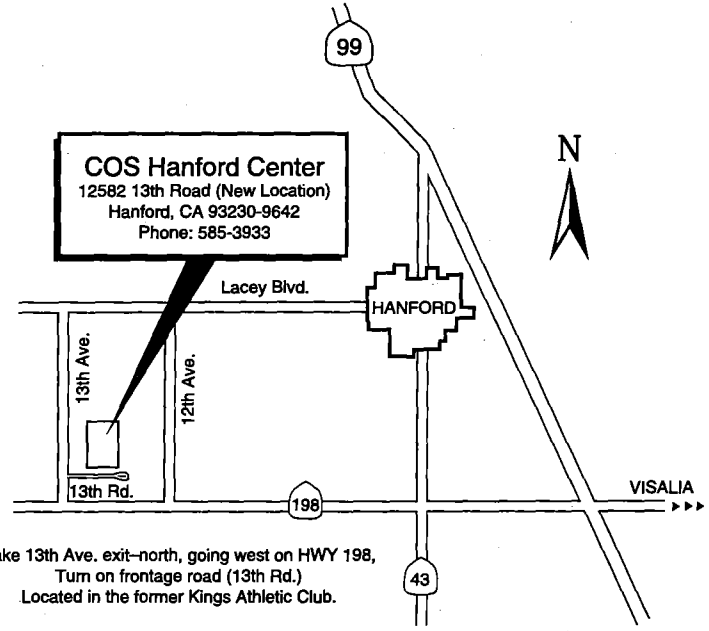
Woodlake Union High
400 West Whitney

COS Farm

2245 South Linwood • Visalia, CA (559) 730-3916

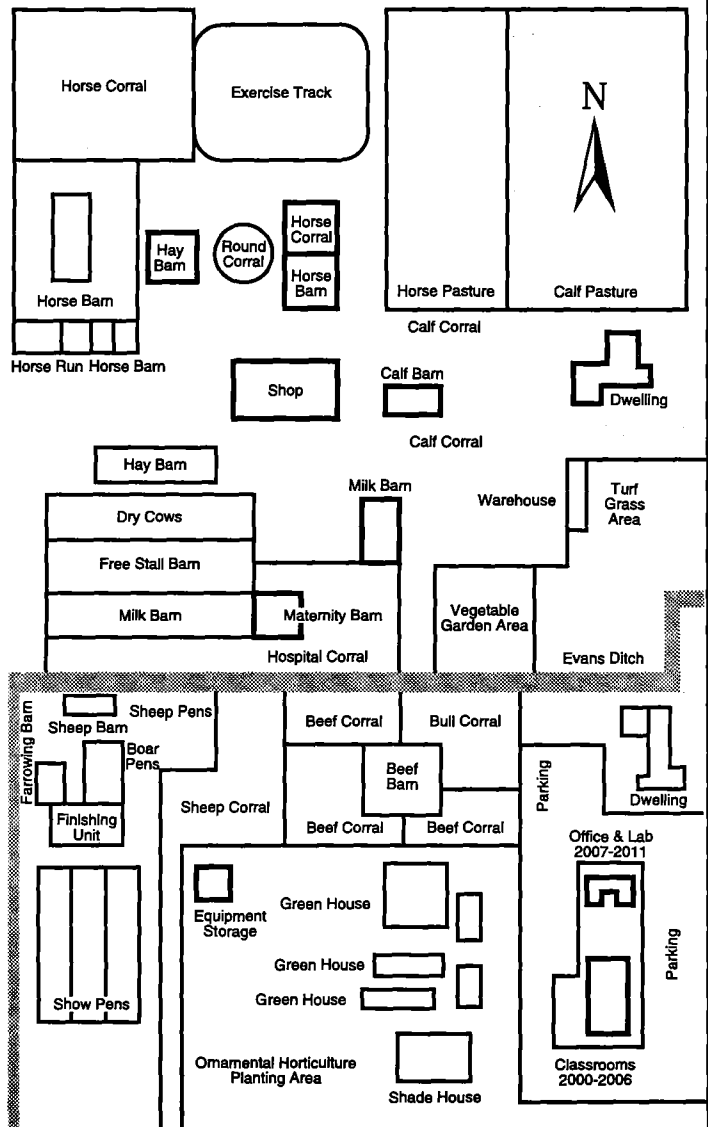
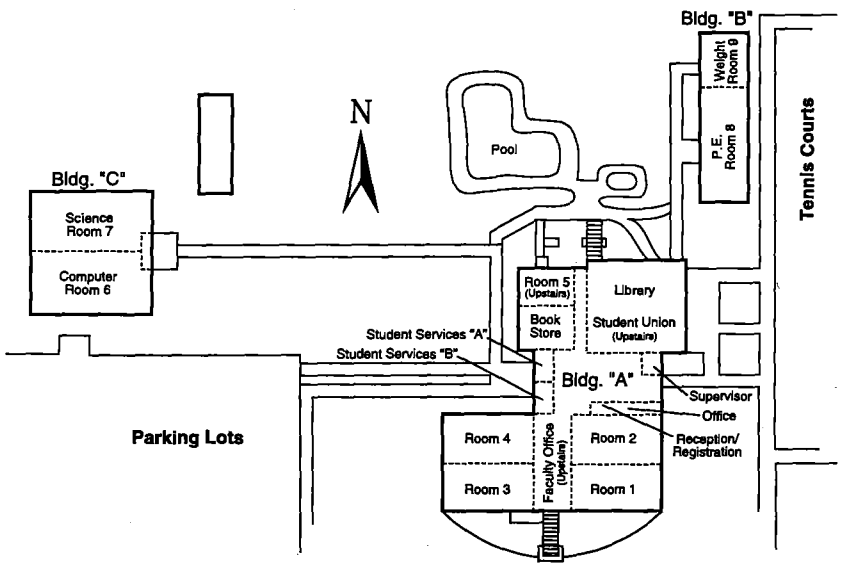
Walnut Avenue

COS Hanford Center
 12582 13th Road (New Location)
 Hanford, CA 93230-9642
 Phone: 585-3933



Take 13th Ave. exit-north, going west on HWY 198,
 Turn on frontage road (13th Rd.)
 Located in the former Kings Athletic Club.

Hanford Center

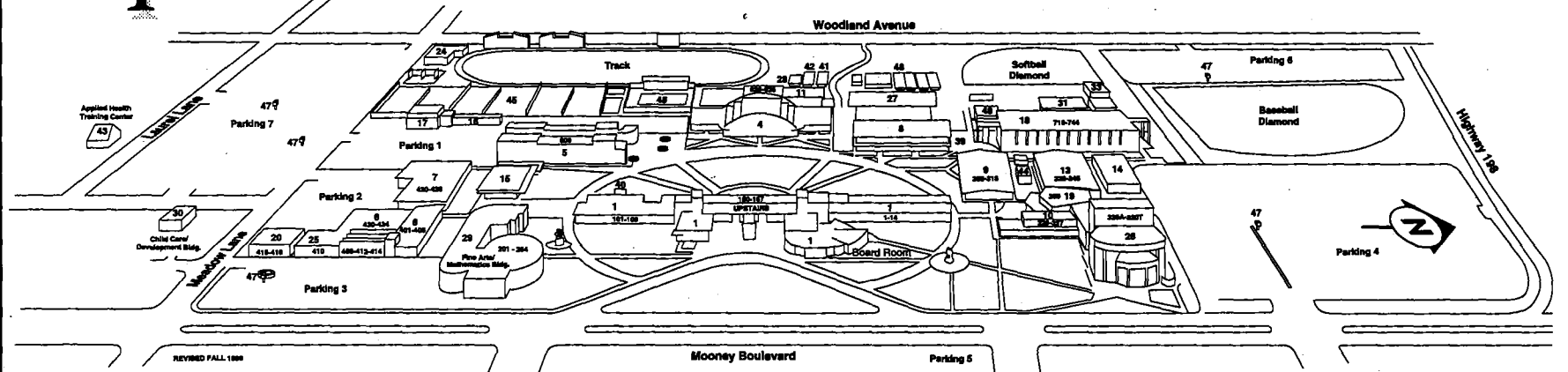


Linwood Avenue

College of the Sequoias

MAIN CAMPUS

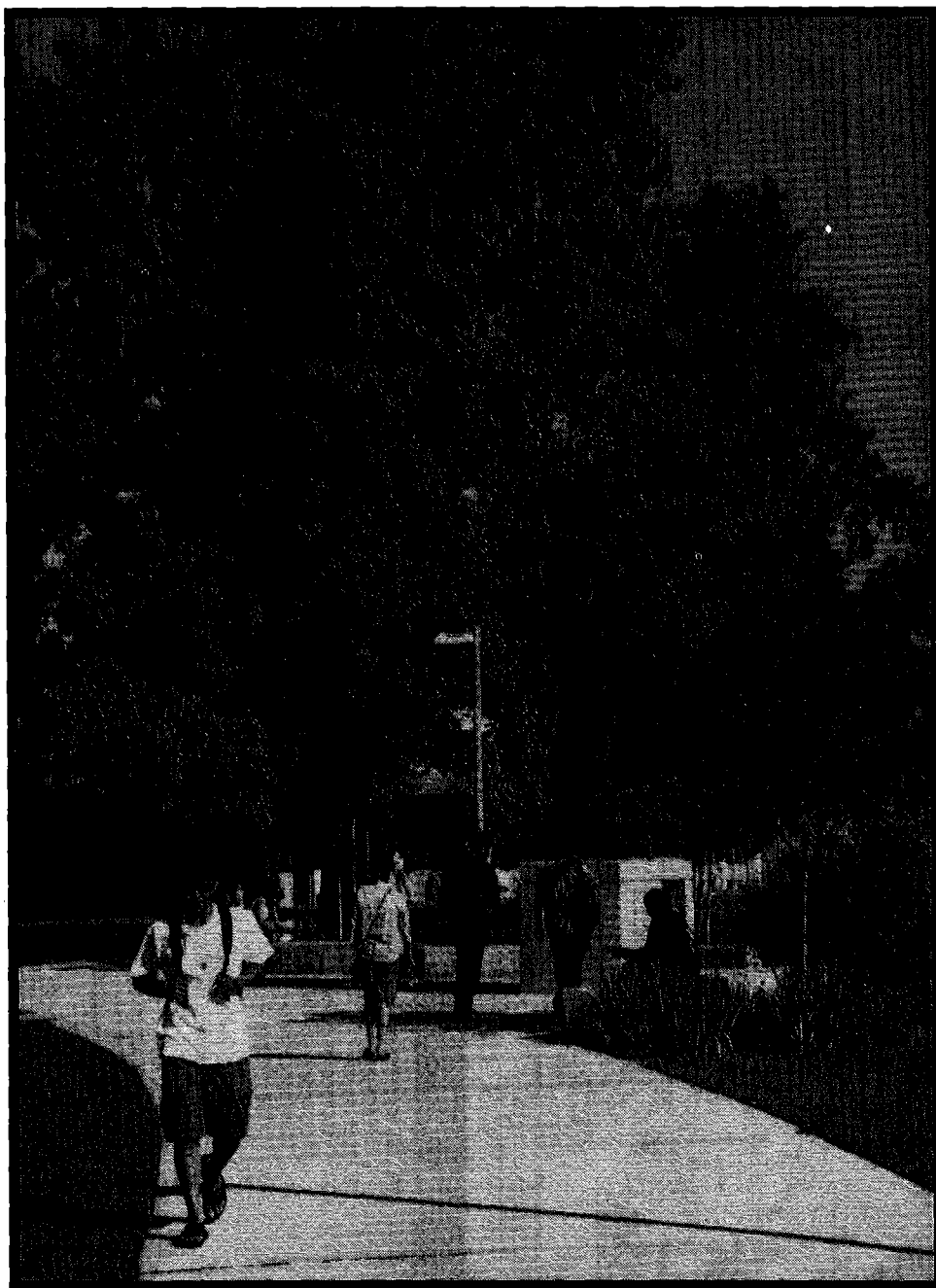
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NUMERICAL LIST

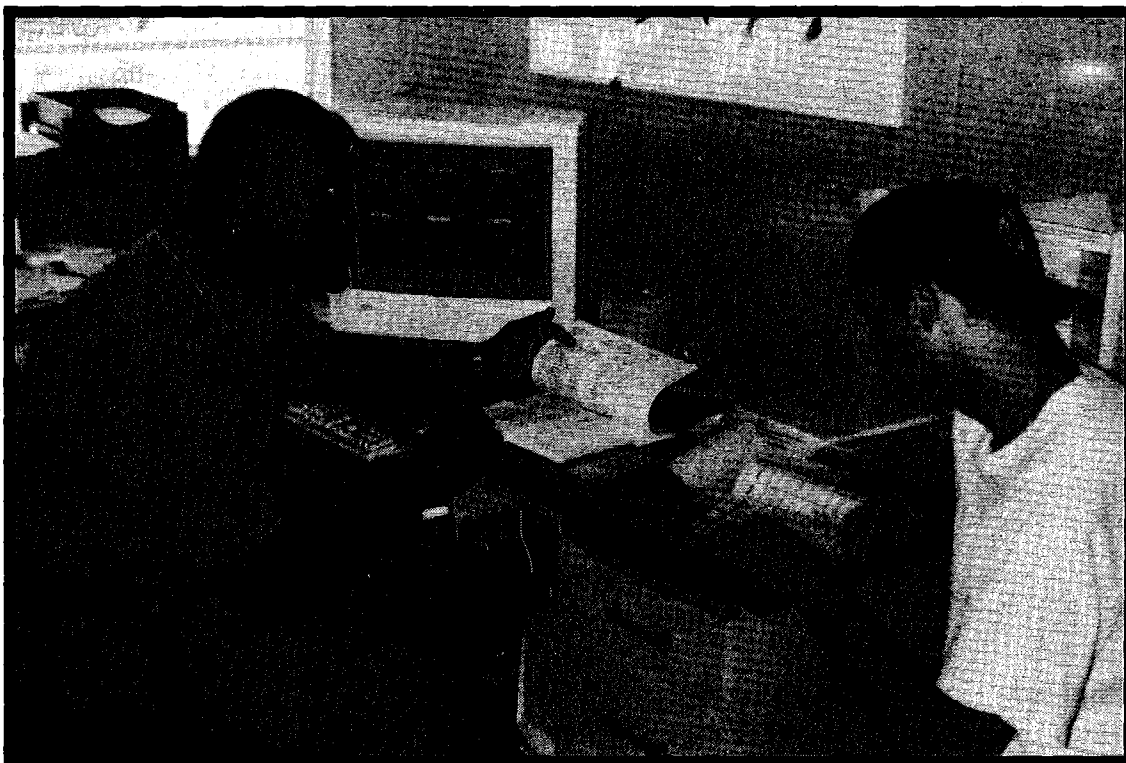
ALPHABETICAL LIST

1. Administrative Offices	18. Business/Foreign Language	Adaptive P.E. 28	Counseling Center 1	Mill Cabinet Lab 7
Board Room	Criminal Justice/Computer Services	Administration 1	DSP&S Office 27	Music 10
Career Center	19. Lecture Hall	Administration of Justice 18	Dance Studio 11	Music Library 10
Cashier's Office	20. Vocational Education	Admissions & Records 1	Drafting Technology 6	Nursing Lab 31
Counseling	Corporate & Community Education	Air Conditioning Technology 6	EOP&S 1	Nursing Office 31
Financial Aid	24. Maintenance Shop	Architectural Technology 6	Electronics Technology 7	Physics 1
Health Center	25. Human Resources	Art Gallery 29	English 5	Pool 46
Registration	26. Theater	Assessment & Testing 1	Facilities and Operations Office 17	Print Shop 17
Science	27. Instructional Media Center	Athletic Training Room 4	Food Court & ATM 39	Public Safety Office 16
Student Services	Duplications/DSP&S/Mailroom	Automotive Technology 7	Financial Aid 1	Receiving 17
Student Activities Office	Adaptive P.E.	Biology 9	Fine Arts/Math 29	Scholarship Services 1
4. Gymnasium/Athletic Office	29. Fine Arts/Math	Board Room 1	Foreign Language 18	Science 1 & 9
Women's Locker Room	30. Child Development Center	Bookstore 14	Foundation Office 1	Social Sciences 13
5. Consumer/Family Studies	31. Nursing Offices/Lab	Box Office 26	Gymnasium 4	Student Activities Office 1
6. Industrial Education - East	33. Student Development Center	Business Division 18	Gym Annex 11	Student Development Center 33
7. Industrial Education - West	39. Food Court/ATM	California State University	Health Center 1	Student Services Center 1
8. Library, Tutorial Center/Learning Center	40. Coffee Court	Fresno/COS Center 48	Home Economics 5	Student Union 15
9. Life Sciences	41. CalWorks No. 1	Career Center 1	Human Resource Services 25	Tennis 45
10. Music	42. Classroom	Cashier's Office 1	Industry & Technology 6 & 7	Theatre 26
11. Physical Education (Gym Annex)	43. Applied Health Training Center	Chemistry 1	Information 1	Transfer Center 1
13. Social Sciences	44. Greenhouse	Child Development Center 30	Instructional Media Center 27	Transportation 16
14. Bookstore/Emergency Call Tower	45. Tennis	Coffee Court 40	Learning Disabilities Classroom 27	Veteran Services 1
15. Student Union (Carl's Jr.)	46. Pool	Community & Corporate Education/	Lecture Hall 19	Women's Locker Room 4
16. Campus Police/Transportation	47. Parking Permit Machine	Vocational Ed Administration 20	Library 8	700 Building 18
17. Facilities Office/Print Shop/Warehouse	48. CSUF/COS Center (FS 1-6)	Computer Services 18	Maintenance Technology 6	
	49. CSUF Administrative Office	Consumer/Family Studies/Lang. Arts 5	Math 29	



*"The difference between a successful person and others
is not a lack of strength, not a lack of knowledge,
but rather in a lack of will."*

Vincent T. Lombardi



*"More than ever before in the history of the United States,
education is the fault line, the Great Continental Divide,
between those who will prosper
and those who will not in the new economy."*

President Clinton, 1996
(Spoken at the 1996 Princeton graduation)

Eligibility for Admission

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

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.

For dates relating to registration, check the calendar in the front of this catalog or inquire at the Registration Office, Room 104. Registration is through the Telephone Access System. Information on this process will be printed in the current Schedule of Classes and available in the Registration Office, Room 104.

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 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. Students may be exempt from the Placement Test requirements based upon criteria listed in the Matriculation Policies section of the catalog. Tests are administered throughout the year. Information on test dates and test registration may be obtained by contacting the Assessment/Placement Test Office in Room 101B.

Summary of Admission Requirements

(Full-time Students, Twelve (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 seven (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 schedule of classes.
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.
4. 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 AND RECORDS 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 Aid Office; 2) Veterans' Office; 3) Mini-Corps Office; 4) Registered Nursing Program

Summary of Admission Requirements

(Part-time Students, Six (6) or Fewer Units)

1. File a completed admission application prior to the deadline as specified in the Schedule of Classes.
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
 - 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 may be granted credit for purposes of general education certification, graduation, advanced placement in the college's sequence courses, and for curriculum requirements.

Students will automatically receive credit for Advanced Placement Examinations, if scores are sent to the college. The college will confirm the credit granted. If students choose not to receive credit for AP exams, they should inform the Admissions and Records Office 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.

Extended Learning/HS Accelerated Students:

K-12 students are required to submit an admission application and high school permission form to the Admissions and Records Office for every semester of attendance. Attendance is on a space available basis only. High school accelerated students attending a class at COS are NOT considered "continuing students."

Registration

Students use the COS Telephone Access System to register for classes by touchtone telephone. Walk-In Registration is available right before the semester begins and during late registration. Detailed information is printed in the Schedule of Classes each semester.

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 Secretary for the Vice President of Student Services. However, the decision to retain a student in the class is the decision of the faculty member. **However, it is the student's responsibility to drop a class in which he/she no longer wishes to be enrolled. NON-ATTENDANCE DOES NOT RELEASE THE STUDENT FROM THIS RESPONSIBILITY.**

NOTE:

Before scheduling a counseling appointment and admission to the college, students must:

- (1) have a completed application on file;
- (2) have taken the COS Placement test if required;
- (3) have the appropriate transcripts on file prior to the first day of instruction.

Resident Regulations

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

A "resident" is a student who has residence in the state for more than one year immediately preceding the opening day of instruction of the **semester** (EC68017,680601), and has demonstrated intent to make California their permanent home.

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, they may be required to demonstrate financial independence (T54020/EC68044).

Physical presence within the state solely for educational purposes does not constitute establishing California residence regardless of the length of that presence (T554026). 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). During this time, the student should demonstrate intent to make California their permanent home.

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). During this time, the student should demonstrate intent to make California their permanent home.

College Level Examination Program (CLEP)

College of the Sequoias awards credit for the five General Examination sections of the College Level Examination Program. Six units of elective credit may be awarded for each examination that a student completes with a score of 500 or higher. The CLEP may also be used to fulfill certain Associate Degree general education requirements as listed in this catalog. Only students who are enrolled and matriculated at College of the Sequoias may receive CLEP credit on a College of the Sequoias' transcript.

To obtain information and make arrangements to challenge one or more of the General Examinations, students may contact the Educational Testing Office at CSU, Fresno (559) 278-2457. Upon receiving the minimum score, students may petition for credit by submitting the official CLEP Test result to the COS Admissions and Records Office, Room 107.

International Students

College of the Sequoias accepts a limited number of foreign students each year. In order to keep a well-balanced 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 achieve 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 approximately \$4,080 (for those students enrolled in 15 units each semester) is the same as for other non-resident students. Foreign and nonresident students must also pay the resident tuition of \$11 per unit which has been included in the \$4,080 annual tuition fee listed above. Payment of a \$100 Application Fee must be paid upon application to the college. Payment should be by bank draft or money order and must be received before the Form I-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 funds to cover the insurance should be paid with the non-resident tuition.

Federal and State funding for scholarships is not available to foreign students. Working during the first year is not allowed and students must have sufficient funds to defray expenses. Each application must be accompanied by a certified financial statement indicating sufficient monies are available to pay college costs and living expenses.

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 International Student Advisor, (Dean, Student Services), in the Admissions and Records Office.

Transcripts

Applicants under 21 years of age, must file certified transcripts of their high school record with College of the Sequoias. Applicants who have attended another college or university must only 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.

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 Aid
 - b. Veterans' Benefits
 - c. Mini-Corps
 - d. Registered Nursing Program

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 or released to other institutions..

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 Financial Aid Office, Room 103B, for eligibility information.

Fees and Expenses

Fee assistance is available to eligible students. Eligibility information may be obtained from the Financial Aid Office, Room 103B.

Enrollment Fee

An enrollment fee of \$11.00 per unit is charged all students. An enrollment fee of \$5.50 is charged per 1/2 unit. The non-resident fee is an additional \$125.00 per unit.

Health Fee

A mandatory health fee is charged each semester to all COS students enrolled in classes for units or who are repeating a class under the Community Service Option. The health fee is \$11 for Spring and Fall semesters and \$8 for the Summer Semester. Fee waivers are available for low income students and for religious reasons. The health services fee helps support campus health services, including accident insurance.

Material Fees

A material fee may be levied in certain courses approved by the Board of Trustees. Fees vary and are noted in the Schedule of Classes. Material fees are refunded to students who completely withdraw from class the last day of registration BEFORE the semester begins or if the class is cancelled by the college. **There are no material fee refunds once the semester begins.**

Textbooks and Supplies

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 Bookstore.

Parking Fees (Optional)

Students wishing to park on campus must pay a fee. Parking fees have been instituted to provide the resources needed to repair and maintain COS Parking. Parking permits are purchased on a semester basis. Spring and fall semesters are \$15.00 per semester for both full-time and part-time students. Motorcycle and Moped parking is free in designated areas. CSU, Fresno students are charged a \$15.00 parking fee per semester. Students can purchase a second parking permit for a fee of \$7.50 along with proof of registration.

Students are charged a \$10 fee for a summer parking permit. **Fall or spring semester permits are valid for summer semester.**

Students not wishing to purchase a semester parking permit may purchase one-day parking passes for 50 cents from the dispensers located in Parking Lots 1, 3, 4, 6, 7, and at the college farm.

IMPORTANT NOTES:

- 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.

ASB Representation, Photo & ID Fee

Optional purchase of a photo and identification card entitles you to all the privileges of Associated Student Body membership, including local merchant discounts. Cost is \$15.00 per year whether you purchase your permit in the spring (January to January) or the fall (August to August).

A student representation fee of \$1.00 per semester (for students enrolled in six (6) or more units) is charged. A waiver of this fee can be obtained for religious, political, moral, or financial reasons. The Representation Fee is an includable cost in student budgets for students receiving federal and/or state financial aid benefits.

Nonresident Tuition Fees

The nonresident tuition fee for the academic year 2000-2001 is \$125 per semester unit, plus applicable enrollment fees payable each semester upon registration. The nonresident tuition fee for foreign students is \$125 per semester unit and when the student is both a citizen and a resident of a foreign country, a \$100 processing fee must accompany the application which is deductible from the tuition fee at the time of enrollment, plus all applicable enrollment fees. Fees are applicable whether nonresidents enroll for credit or noncredit. Guidelines and regulations for fee refunds for the nonresident student are the same as for all other students.

IMPORTANT NOTES:

- All fees are mandated by the State and are subject to change without prior notice.
- Any increase in fees after the student registers will be charged and billed accordingly.

Payment of Fees

Payment may be made by credit card (Visa, Master Card, American Express or Discover Card), cash, check or money order. Payment over the Telephone Access System is by credit card, check, money order, agency payment (financial aid), or by any other method in person at the Cashier's Office (Room 102) or at the Hanford Center. **Credit card purchases may be subject to pre-approval.** The following policy applies when payment is made by personal check:

- Check is for the amount due only
- Must provide photo identification and social security number
- Imprinted checks only
- In-state checks only
- No personal two-party checks
- Non-sufficient funds checks are turned over to Sequoia Check Collection. The non-sufficient funds check charge is \$25.00 plus customer bank charge which will be added to all returned checks

Books may also be purchased by Master Card or Visa. Students are encouraged to purchase books after attending the first class session.

Refund Policy

Enrollment and health fees for students who reduce units or completely withdraw (not including short-term classes) from college prior to the end of the SECOND WEEK OF INSTRUCTION will be as follows:

Enrollment and Health Fee Refunds

Refunds are given ONLY by student petition. Forms can be obtained at the Cashier's Office located in Room 102.

All refunds are issued by check. Students will be charged a \$5 handling fee on enrollment credits only.

Reimbursements petitioned for by the end of the fifth (5th) week will be mailed between the 6th and 8th instructional week of the semester. Refund petitions which are received by the end of the 12th week of the semester will be mailed between the 13th and 15th week of the semester.

Students may carry a refund/credit balance and use it the following semester to avoid the \$5 handling fee.

No refunds will be given for classes dropped after the first two (2) weeks of school or short-term classes dropped after the first class day.

No refunds for material fees will be given unless the student drops class prior to first day of the semester.

Credit balances will be carried forward to the following semester.

For questions regarding collections or refunds on fees, contact 730-3868.

Parking Fee Refunds

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.

- A \$3 service fee will be deducted from all permit refunds
- Parking permits or remnants must be returned to the Campus Police Office before refunds will be processed.
- A refund check will be mailed in 6-8 weeks.
- Permits must be picked up as soon as purchased as a limited number will be issued.
- Lost permits may be replaced at the same costs as the original purchase.
- Stolen permits may be replaced ONLY after an official police report has been made to the Campus Police Department.

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. Transfer students must supply official transcripts from all other colleges attended. 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	C	2
English	3	0	F	0
Chem	5	5	A	20
Geol 1	4	4	B	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 full-time 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 full-time 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.

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;
5. discuss educational/vocational choices and class selections with a counselor prior to registration;
6. diligently attend classes and complete assigned coursework; and
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 Matriculation and Foreign Student Coordinator. Students who are exempt based upon the following criteria are welcome to request any service or activity from the respective departments.

Matriculation Requirements for Participation in Assessment, Orientation and Counseling

Assessment

All students are required to take the COS Placement Test for English and math if they:

1. plan to pursue either an Associate degree or transfer program; or
2. plan to enroll in a math course or any course with a math advisory/prerequisite (Math placement test required); or
3. plan to enroll in an English course or any course with an English advisory/prerequisite (English placement test required).

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

MATH TEST:

1. enrolling in courses other than a math class or a class that lists a math advisory/prerequisite; or
2. enrolling in Math 360, Pre-Algebra or Math 365, Arithmetic and Pre-Algebra; or
3. presenting a valid college transcript that demonstrates successful completion (grade "C" or higher) 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 advisory/prerequisite; or
2. presenting a valid college transcript that demonstrates successful completion (grade "C" or higher) of English courses that are equivalent to courses offered at COS.

Orientation

All students (regardless of the number of units in which they plan to enroll) must participate in orientation if they:

1. have no former college units from either COS or another institution (California and out-of-state community colleges, private colleges/universities; UCs; and CSUs); and
2. plan to pursue a certificate, Associate degree or a transfer program; or
3. graduated from high school within the last calendar year.

Exemption Criteria for Orientation

All students are exempt from orientation if they:

1. attended (with proof) an orientation at COS or another college; or
2. completed a Student Education Plan with a COS counselor that is current and reflects the correct major and educational goal; or
3. plan to concurrently enroll in high school and COS classes as a high school Junior or Senior.

Counseling

All students (regardless of the number of units in which they plan to enroll) are required to consult a counselor to develop a Student Education Plan if they:

1. plan to pursue a certificate, Associate degree or a transfer program; or
2. need to update their Student Education Plan to correct the major and/or educational goal; or
3. need a current Student Education Plan for other departments (e.g., Financial Aid, Veterans, EOP&S, Disabled Student Programs and Services, JTPA/GAIN, etc.) who have special requirements.

Counseling Policy (Board Policy 7025)

Approved 3/20/2000

- A. *The Governing Board of the College District at each campus within the District shall provide and publicize a counseling program, which shall include, but not limited to, the following:*
 1. *Academic counseling, in which the student is assisted in assessing, planning, and implementing his or her immediate and long-range academic goals.*
 2. *Career counseling, in which the student is assisted in assessing his or her aptitudes, abilities, and interests, and is advised concerning the current and future employment trends.*
 3. *Personal counseling, in which the student is assisted with personal, family, and or other social concerns, when that assistance is related to the student's education.*
 4. *Coordination with the counseling aspects of other services to students which may exist on the campus, including, but not limited to, those services provided in programs for students with special needs, skills testing programs, financial assistance programs, and job placement services.*
- B. *Counseling services will be provided for first-time students enrolled in six or more units and students on academic or progress probation or subject to dismissal. Students on probation and subject to dismissal may have units limited and courses or an educational plan prescribed subject to the professional judgement of the counselor. Students subject to academic dismissal shall be required to meet with a counselor prior to registration.*

- C. *The College is authorized to mandate counseling or advising as a condition for enrollment for selected groups of students whose needs for such services are particularly great..*

Exemption Criteria for Counseling

All students are exempt from orientation and counseling if they:

1. enroll in college courses for reasons other than the pursuit of a certificate, Associate degree or a transfer program; or
2. enroll in courses that do not specify prerequisite/corequisite or other skill recommendations in reading, writing, or computation that are assessed through the COS Placement Test and in a counseling appointment.

Exemption Procedures

Any student who is considered nonexempt 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 Admissions and Records Office, Room 107.

Formal Procedure:

1. The student can acquire the Matriculation Exemption Form from Admissions and Records or Counseling.
2. The student must return the form to the Admissions & Records Office.
3. The staff will review all cases on the same day 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 Office of Matriculation, under the following situations:

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

Formal Procedure:

1. The student must complete the form and submit it to the Dean, Admissions and Records.
2. Within 10 working days, the Matriculation Office will 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.



*"Success is not measured by what a man accomplishes,
but by the opposition he has encountered,
and the courage with which he maintained the struggle against overwhelming odds."*

Charles A. Lindbergh



*"The credit belongs to the man who is actually in the arena, who strives valiantly;
 who knows the great enthusiasms,
 the great devotions, and spends himself
 in a worthy cause;
 who at the best, knows the triumph of high
 achievement;
 and who, at worst, if he fails, fails at daring greatly,
 so that his place shall never be with those
 cold and timid souls,
 who know neither victory nor defeat."*

Theodore Roosevelt

Auditing Credit Classes

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

No person may attend or participate in a class without being properly enrolled due to insurance stipulations.

California Articulation Number (CAN)

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 the Index of this catalog under the listing of "CAN."

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 Wait Lists

Wait lists are established for classes that have filled to their maximum enrollment. Students may place their name on a wait list through the COS Telephone Access System during the registration process.

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 after the second class session. Instructor permission forms can be obtained in the Administration Office from the Community Service Secretary and fees paid at the Accounts Receivable Office. Fees for students enrolled in Community Services shall be \$15 per unit, an \$11 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 may 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.

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 Room 106, the Transfer/Career Center. Students must fill out an application in this office to register.

Course Repetition Policy

Only courses which fall into the following categories 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 petition to repeat a course:

1. If a grade of "Credit" or "CR" was received and prior permission of the Dean, Admissions and Records has been granted.
2. If a final course grade of "D," "F," or "NC" was received.
3. If the course has been repeated a second time with a substandard grade received, and the student has a written recommendation from a counselor.
4. When repeating a course with an initial grade of "C" or better, the student, MUST obtain a petition and have written approval from the Dean, Admissions and Records PRIOR to repeating a course to have the most recent grade recorded. 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, both grades earned will appear on the official transcript.

Conditions under which a grade of "C" or better may be petitioned are:

- If the grade was affected by interruptions such as verifiable accident, illness, or other circumstances beyond the control of the student;
- If a significant lapse of time has occurred since the course was taken (usually at least one calendar year).

Credit by Examination

Conditions and Requirements for Credit by Examination

1. Students must be currently registered and in good standing at COS. The student may not be currently enrolled in the course he/she is petitioning for Credit by Examination. Good standing is defined as not on probationary status.
2. Students must file a petition for approval to challenge a course by examination with the Admissions and Records Office.
3. Students must furnish strong proof to the satisfaction of the instructor/department, division chairperson and the Vice President of Academic Services that previous background, experience or training would ensure 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 assigned, 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 15 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, a 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 nonrefundable material fee and a processing fee of \$15 will be assessed for each credit by examination petition in addition to the appropriate enrollment, and/or nonresident fees charged for each semester unit to be challenged.

Dropping a Class

Withdrawals prior to the end of the second week of the semester are not recorded on the student's transcript. However, students may officially drop a class or withdraw from college through the 10th week of the semester with a "W" recorded on the transcript. It is the student's responsibility to drop a class in which he/she no longer wishes to be enrolled. Nonattendance does not release the student from this responsibility. The last day to drop a Fall 2000 class is October 27 and the last day to drop a Spring 2001 class is March 30. Students will process all drops and withdrawals by telephone.

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 college drop-date procedures as follows: verified cases of accidents, illness, death in the immediate family, jury duty, job displacement, and/or other circumstances which are justifiable in the judgement of the administrators in Student Services and Instruction, but preferably the Dean, 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.

Grades may be accessed by calling the Telephone Access System at 737-6101 during dates listed in the Schedule of Classes under "Grades". In addition, a hard copy of grades may be obtained at no cost at any of the self-serve terminals located on campus: Room 104, COS library, COS Farm, EOP&S Office, DSPS Office, and at the COS Hanford Center.

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 year.

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.

"Credit"/"No Credit" Grading

Effective the Spring semester, 1996, all students enrolled in the 300 series (Course Number) of classes are graded on an "A," "B," "C," and "No credit" basis.

"Credit" grading (.5 units) is given to IS 200, Orientation for College Success. The Enabler Skills discipline is awarded "Credit" and "No Credit" grading.

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. ***This program is currently under review and courses have not been scheduled for the Fall 2000 semester.***

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 if the required work is not completed. A copy must be given to the student with the original record on file in the Admissions and Records Office 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 year 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, Academic Services

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).

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 and Records 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, Academic Services before the end of the 3rd week of the semester.
4. If approved, the form is sent from the Office of Academic Services to the Admissions and Records Office and the course is 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 along with information regarding appropriate fees.
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 **instructor** then notifies the student as to the reason for the denial.
6. Roll sheets will be distributed to the appropriate instructors by the Admissions and Records Office.
7. At the end of the semester, grade reports for independent study classes **MUST** be turned in to the Admissions and Records Office **at the same time as those for regularly scheduled classes.**
8. 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.
9. A complete roster of all independent study students will be kept by semester for a given year and filed in the Admissions and Records Office.

Leaves of Absence

Students finding it necessary to be absent for a period of five days or more are requested to obtain and complete a leave of absence form available in the Student Services/Counseling 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.

Students may enroll in a maximum of 19 units each semester. Students on Academic or Progress Probation are limited to 13 units. Students wanting an exception to this rule, must obtain a unit overload form approved by a counselor prior to registration. Units above the maximum, must be registered by walk-in.

Courses offered as associate degree applicable will use the Carnegie Unit equivalent: 18 hours of lecture equal one lecture unit credit; 36 hours laboratory equal one laboratory unit credit.

In determining the total number of units offered through the course for laboratory class, the following combinations may be used:

- one hour lecture, two hours homework equal one unit of credit;
- one hour of lecture, one hour of laboratory, and one hour of homework equal one unit of credit;
- one hour of lecture, two hours of laboratory equal one unit of credit;
- three hours of laboratory equal one unit of credit;
- two hours of laboratory, one hour of homework equals one unit of credit.

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.

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 and Corequisites

Title 5 Matriculation Regulations (Sections 55002, 55200, and 55201) state that students are entitled to enroll in any course for which they can meet necessary and valid pre- and co- requisites.

A "prerequisite" means a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program. Prerequisites shall be based on successful completion of an appropriate course (e.g. Math 230 with a "C" or better prior to attempting Math 45 or 21) or the college's assessment process using multiple measures.

A "corequisite" is a condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course (e.g. Math 75 in conjunction with Engineering 1).

An "advisory on recommended preparation" means a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program (e.g., Drafting 160 with a "C" or better prior to attempting Drafting 161).

A "limitation on enrollment" is similar to a prerequisite because both are conditions of enrollment that a student is required to meet for enrollment in a course or educational program. A limitation on enrollment differs from a prerequisite because it is not based on the successful completion of a course or the college's assessment process using multiple measures (e.g., public performance courses requiring an audition).

Section 55201 permits the establishment of pre- and co- requisites if the particular pre- and co- requisites:

- a. were established prior to July 6, 1990, and are part of a sequence of degree-applicable courses within a given discipline; or
- b. were established between July 6, 1990, and November 4, 1993, in accordance with regulations in effect during this period of time; or
- c. are required by statute or regulation; or
- d. are part of a closely-related lecture-laboratory course pairing within a discipline; or
- e. are required by four-year institutions.

According to Section 55201 any pre- or co- requisite may be challenged by a student on one or more of the grounds listed in the regulations. Section 58106 describes similar grounds upon which a student may challenge a limitation on enrollment. These regulations are available in the offices of Student Services, Academic Services, and Matriculation upon request. The student shall bear the burden of showing that grounds exist for the challenge. Challenges shall be handled in a timely manner according to the Appeal and Grievance Procedures through Matriculation. The Appeal/Grievance form and procedures document can be obtained from the offices of Student Services and Matriculation. If the challenge is upheld, the student must be permitted to enroll in the course in question.

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 (T555754).

Unit Limitation

A student on academic and progress probation may be limited to 13 units or to a maximum load recommended by the student's counselor.

Academics

Academic Probation Removal

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

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. Dismissals occur only after the Spring semester. 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 Dean, Admissions and Records.

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 cumulative 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 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 readmission is required prior to enrollment and is available from the Admissions and Records Office, 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 readmission until another semester of nonattendance has elapsed.

Academic Renewal

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 renewal of a "WF" or "F" grade, conditions (1) and (2) below must be met.

- (1) Fifteen or more semester units of lower division 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"/"F" grades were earned.

- (2) At least three years must have elapsed since the "WF"/"F" grades were received. Instructors who originally assigned the grades must give written approval for their forgiveness. In cases where the faculty members cannot be located, the final decision or forgiveness of "WF"/"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 drops below 50 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 with 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 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 Admissions and Records Office 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 readmission until another semester of non-attendance has elapsed.

Student Progress

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

Report Delayed (RD)

The "RD" symbol may be assigned by the Dean, 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 Deficiencies

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. Contact 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 Registration Office, Room 104.

Beginning with the Spring 1999 Semester, withdrawals will be processed through the Telephone Access System. Students withdrawing after the final drop date must bring documentation of approved extenuating circumstances to the Registration Office, Room 104.

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

Distance Learning

If you find it difficult to get to the COS campus for a weekly schedule of classes, our Distance Learning program may be just what you need!

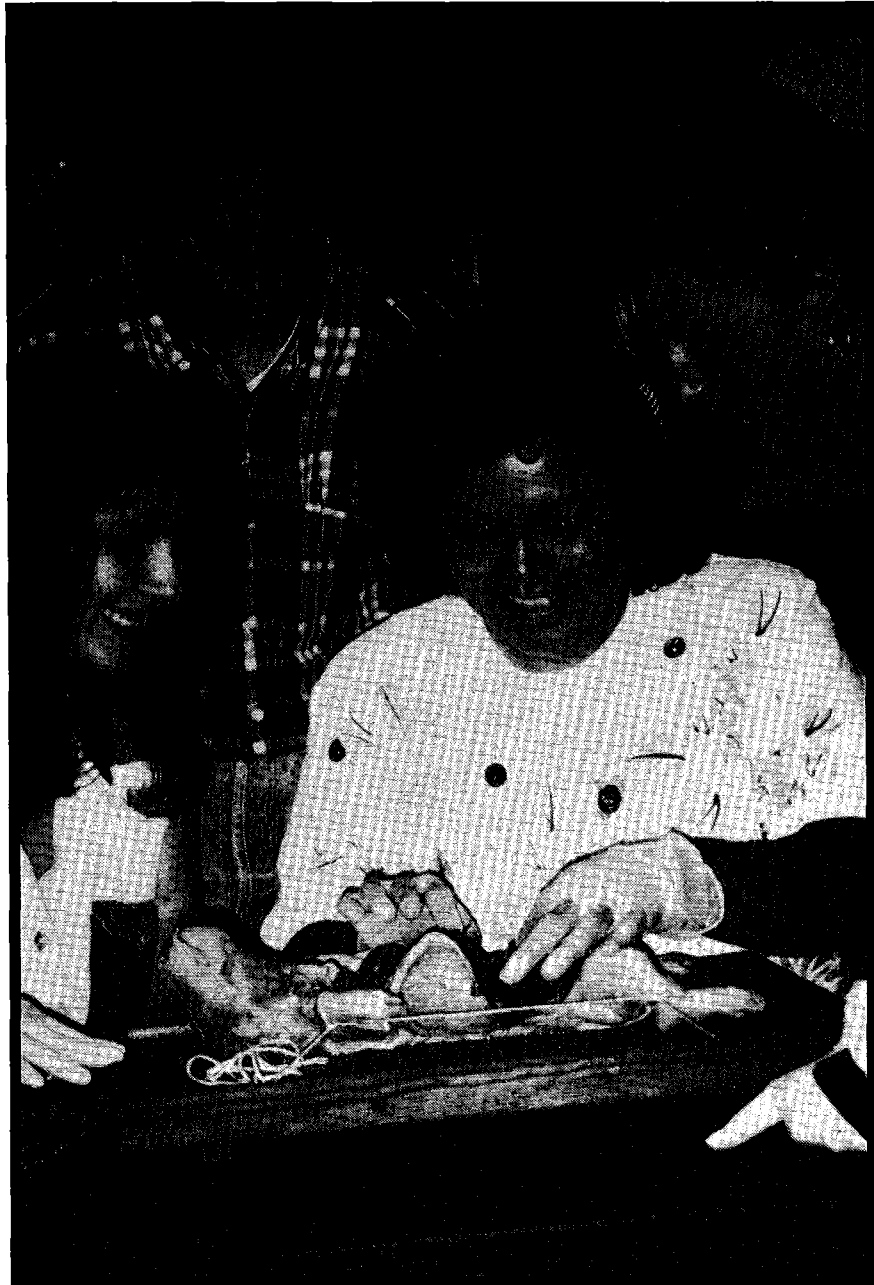
COS distance learning classes allow you to complete most of the coursework outside the classroom, on your own time. Classes are offered in two formats:

- ⇒ Online classes, requiring you to have access to a computer with an email account and/or the Internet.
- ⇒ Television classes, broadcast on Channel 18, Choice TV, and Media One.

COS distance learning courses transfer to four year colleges and universities exactly like traditional classes held on campus. The coursework is equally rigorous. It's important to remember that success in distance learning classes will mean hard work on your part, plus good time management skills.

For more information, Check our web page at:

<http://zeus.sequoias.cc.ca.us/distance/index.html>



*"The past is history, the future is a mystery
and now is a gift.
That's why we call it the present."*

Unknown Author



*"The quality of a person's life is in direct proportion to their
commitment to excellence,
regardless of their chosen field of endeavor."*

Vincent T. Lombardi

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 Sequoias Board policies and individual college campus rules and regulations.

Student's Rights: In the context of these concepts, students' rights consist of the following:

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 canons 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;
 - c. Follow district policies, individual publications policies (The Campus and other 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.
3. 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 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 Executive Vice President of Student Services.

Student Record Privacy Rights and Access to Students' Official Records

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

(1) The right to inspect and review the student's education records within 45 days of the day the college receives a request for access.

Students should submit to the Dean, Admissions & Records or other appropriate official, written requests that identify the record(s) they wish to inspect. The college official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

(2) The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.

Students may ask the college to amend a record that they believe is inaccurate or misleading. They should write the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

(3) The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the college in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the college has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

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

FAMILY POLICY COMPLIANCE OFFICE
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-4805

Certain kinds of information may be made available without a release. Such information is known as a "directory information" and consists of one or

more of the following items: Student's name, address, telephone number, date and place of birth, major, photographs, weight and height of athletes, most recent previous school attended, activities, dates of attendance, degrees and awards received and institutions attended. Directory information may also include the student's class schedule, e-mail address and class rosters. 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.

Sexual Harrassment

Educational Environment

Within the educational environment, sexual harassment is prohibited between employees and students, and between students and students.

Work Environment

Within the work environment, sexual harassment is prohibited between supervisors and employees, between employees and between non-employees and employees.

Definition of Sexual Harassment

General Definitions

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature that:

- are made either explicitly or implicitly a term or condition of an individual's educational status or employment
- are used as a basis for educational or employment decisions affecting such individual; or
- have the purpose or the effect of unreasonably interfering with an individual's educational or work performance or which create an intimidating, hostile or offensive educational or work environment

Specific Examples

For the purpose of further clarification, sexual harassment includes, but is not limited to:

- Making unsolicited written, verbal, physical and/or visual contacts with sexual overtones. (Examples of sexual harassment which appear in a written form include, but are not limited to: suggestive or obscene letters, notes, invitations. Examples of verbal sexual harassment include, but are not limited to: derogatory comments, slurs, jokes, epithets. Examples of physical harassment include but are not limited to: assault, touching, impeding or blocking movement. Examples of visual sexual harassment include, but are not limited to: leering, gestures, display of sexually aggressive objects or pictures, cartoons or posters.)
- Continuing to express sexual interest after being informed that the interest is unwelcomed.

Students Rights and Responsibilities

- Making reprisals, threats of reprisal, or implied threats of reprisal following a rebuff of harassing behavior. The following are examples of this type of sexual harassment within the work place: implying or actually withholding support for an appointment, promotion or change of assignment; suggesting a poor performance report will be prepared; or suggesting probation will be filed. Examples of this type of sexual harassment, within the educational environment include: implying or actually withholding grades earned or deserved; suggesting a poor performance evaluation will be prepared; or suggesting a scholarship recommendation or college application will be denied.
- Engaging in explicit or implicit coercive sexual behavior within the work environment which is used to control, influence or affect the employee's career, salary and/or work environment.
- Engaging in explicit or implicit coercive sexual behavior within the educational environment which is used to control, influence or affect the educational opportunities, grades, and/or learning environment of a student.
- Offering favors or educational or employment benefits, such as grades or promotions, favorable performance evaluations, favorable assignments, favorable duties or shifts, recommendations, reclassifications, etc., in exchange for sexual favors.

Disciplinary Action

The College of the Sequoias Community College District forbids any form of sexual harassment, including the acts of non-employees. Prompt disciplinary action will be taken against any student, employee (supervisory or otherwise), engaging in sexual harassment.

Reporting Charges

The procedures for reporting charges of sexual harassment and for pursuing available remedies are available from the College of the Sequoias Title IX Officer, the District Affirmative Action Officer, Human Resource Services and the Student Services Office.

Sexual Harassment Complaint Procedure

Any student, employee or applicant for employment who believes he/she has been sexually harassed may file a complaint with the College of the Sequoias, Title IX Coordinator. In order for a complaint to be processed, the complaint must be filed within one year of the sexual harassment or within one year of learning of the sexual harassment (§ 59328)*.

The College is committed to ensuring that students, employees and applicants for employment are not adversely affected for having brought forward a sexual harassment complaint. All participants in these procedures shall be protected from retaliatory acts by the College, its employees and students. If retaliation or reprisal does occur, disciplinary action will be imposed.

Nothing in this procedure shall affect the right of the complainant to pursue the matter with any State or Federal enforcement agency. Sexual harassment complaints may be filed concurrently with an external agency to meet State and Federal agency deadlines without jeopardizing an individual's rights to pursue a complaint under this procedure.

Purpose of Complaint Procedure

This complaint procedure implements the civil rights protections against sexual harassment. Its purpose is to ensure that no person shall be subjected to sexual harassment under any program, activity or service offered by this College.

This procedure applies to the processing of sexual harassment complaints by any student, employee or applicant for employment who believes that she/he is a victim of sexual harassment.

Informal Complaint Procedure

The purpose of this informal resolution process is to allow an individual who believes she/he has been sexually harassed to resolve the issue through a mediation process rather than the more formal process provided by the College. If it is determined that sexual harassment has taken place, resolution may require nothing more than an apology from the respondent and an assurance that the offending behavior will cease. The steps of the informal procedure follow:

- A. If the complainant believes that discussions of alleged sexual harassment with the respondent or his/her supervisor would be unproductive or inappropriate, the complainant may consult with the Title IX Coordinator.
- B. The Title IX Coordinator will counsel the complainant regarding the sexual harassment policy and complaint procedure.
- C. The complainant's allegation of sexual harassment shall be kept confidential by the Title IX Coordinator and used only to provide a factual basis for resolving the complaint. The Title IX Coordinator will explain to the complainant the nature and extent of the confidentiality provided by this process.
- D. The informal complaint procedure is initiated only when the complainant puts the allegation in writing and in any format comfortable for the complainant. The written statement should contain as much detail as possible including dates, time, description of incident(s), parties involved, any witnesses, etc. However, no official action on this specific allegation of sexual harassment will be taken if the complainant decides not to put the complaint into writing.
- E. Within 10 days of receipt of the informal complaint, the Title IX Coordinator shall contact the respondent in an attempt to resolve the matter informally. The respondent will be asked to provide a written response to the allegations.
- F. Within 10 days of discussing the matter with the respondent, the Title IX Coordinator will review the statements of both the complainant and the respondent and meet individually with each party in an attempt to resolve the matter.

- G. Steps A through F of this informal procedure shall be completed within 30 days.
- H. The completion of the informal procedure is a prerequisite to initiating a formal complaint under the College's sexual harassment complaint procedure. (§59328(b))*

Possible Outcomes of the Informal Complaint Procedure

- A. If the matter is resolved, the Title IX Coordinator will put the resolution in writing and meet with both parties who will review and sign the agreement.
- B. If the parties agree that there has been no sexual harassment and are satisfied with the resolution, the documents connected with the allegation shall be destroyed by the Title IX Coordinator and the complaint will be considered resolved.
- C. If the parties agree that sexual harassment has occurred, but are satisfied with the resolution, then the documentation connected with the allegations and resolution will be placed in a sealed envelope and remain in the possession of the Title IX Coordinator. At this point, the complaint will be considered resolved.
- D. If the complainant is dissatisfied with the resolution of the complaint, she/he should file a formal complaint immediately.
- E. If, after negotiations between the parties, it becomes clear to the Title IX Coordinator that an informal resolution cannot be reached, he/she will convey the determination to both parties. The Title IX Coordinator will also inform the complainant of the right to file a formal sexual harassment complaint under this procedure or to file a sexual harassment complaint with any appropriate State or Federal enforcement agency (i.e., Office of Civil Rights, Equal Employment Opportunity Commission, Department of Fair Employment and Housing).

Formal Procedure

Administrative Determination

- 1. The complainant shall initiate the formal complaint procedure by filing a complaint in writing on the College's sexual harassment form.
- 2. Within 90 days of receiving the complaint (§59336)*, the Title IX Coordinator shall provide the complainant with:
 - a. A copy of the report of the College's investigation of the sexual harassment complaint.
 - b. The written decision that sexual harassment did or did not occur.
 - c. A copy of the proposed resolution of the complaint.
 - d. A description of the action taken by the College administration to prevent similar sexual harassment in the future.
 - e. Notice of the complainant's right to appeal the administrative decision to the Governing Board of the College.
 - f. Notice that both parties have a right to be accompanied by a representative at each step in this procedure.

Appeal to the Governing Board (§59338)*

- 1. If the complainant is not satisfied with the administrative decision, she/he has 15 days in which to file a written appeal with the College's Governing board.
- 2. Only the complainant has a right to appeal the administrative decision. (§59338)* However, a respondent who is an employee may have an opportunity to challenge any disciplinary action resulting from these proceedings.
- 3. Within 45 days of receiving the appeal, the Governing Board shall issue a final decision, or the administrative determination will be considered the final decision. However, a further appeal can be made to the Chancellor of the California Community Colleges. (§59338)*

Further Appeal Options

- A. If the complainant is not satisfied with the decision of the Governing Board she/he has 30 days in which to file a written appeal with the Chancellor of the California Community Colleges. (59338)*
- B. Once again, the College shall inform the complainant of the right to file a sexual harassment complaint with any appropriate State or Federal enforcement agency (i.e., Office of Civil Rights, Equal Employment Opportunity Commission, Department of Fair Employment and Housing).

**All references are to the California Code of Regulations, Title 5, Div. 6, Chapter 10, sub chapter 5, Article 3 unless otherwise noted. Title IX requires the Title IX Coordinator to investigate complaints of alleged sex discrimination, which includes sexual harassment.*

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 Rights and Responsibilities

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 a 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.

NO PERSON MAY ATTEND OR PARTICIPATE IN A CLASS without being properly enrolled due to insurance stipulations. Students properly enrolled should not be accompanied in the classroom by children, nor should children be left unattended on the campus WHILE PARENTS ATTEND CLASSES.

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 of a scheduled absence, they should obtain permission from the instructor prior to the absence. If advance notice is not possible, students should follow the instructor's instructions for reporting an absence.

Dropping a Class

It is the student's responsibility to drop a class in which he/she no longer wishes to be enrolled.

Nonattendance does not release the student from this responsibility.

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

- If during the first two weeks of school, to Room 104.
- If after the first two weeks of school, the Admissions Office, Room 107.

Classes may be dropped by telephone beginning with Spring Semester 1999.

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, Hanford Center, 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. Only in the case of a legitimate emergency will messages be taken and delivered to students.

Posting of Materials

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

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

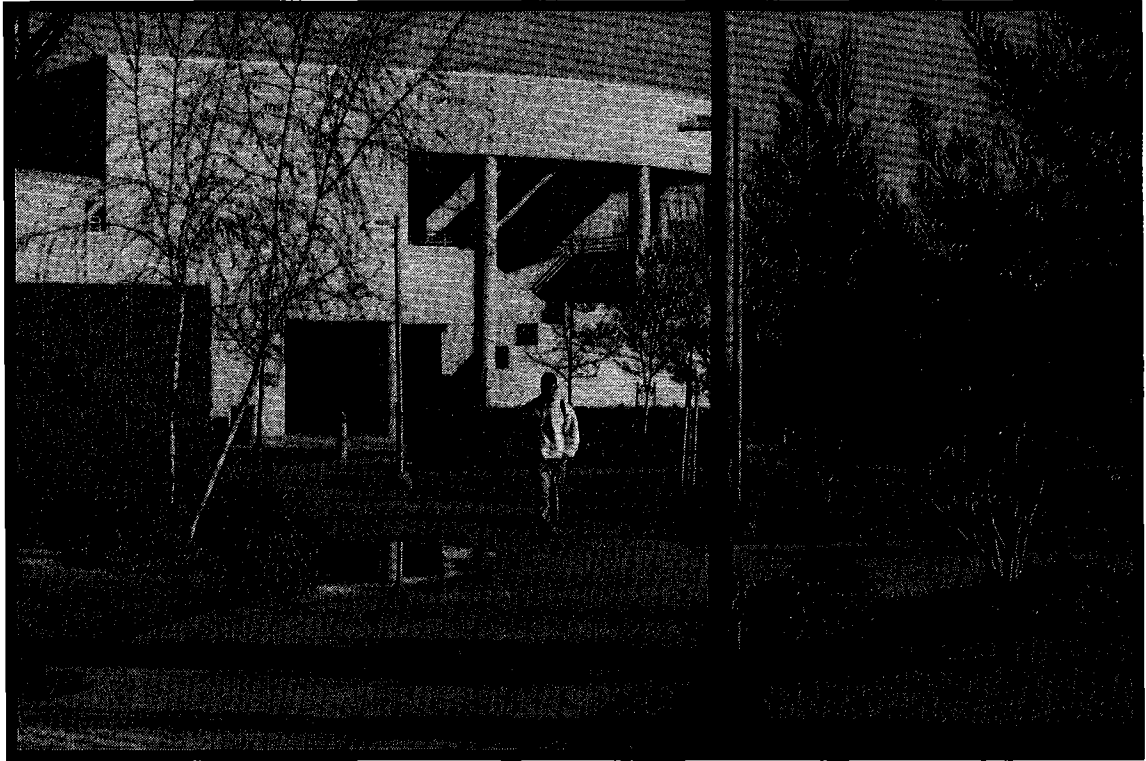
Student Field Trips

Student Transportation

Throughout the school year various classes will meet at off-campus locations. The college will not provide transportation to these sites and all transportation arrangements are the responsibility of each of the students enrolled in the class. Although district personnel may assist in coordinating this transportation and/or may recommend travel time, routes, caravanning, etc., these recommendations are not mandatory. The district is not responsible nor does the district assume liability for any injuries or losses resulting from non-district sponsored transportation. If you ride with another student, that student is not an agent of, or driving on behalf of, the district.

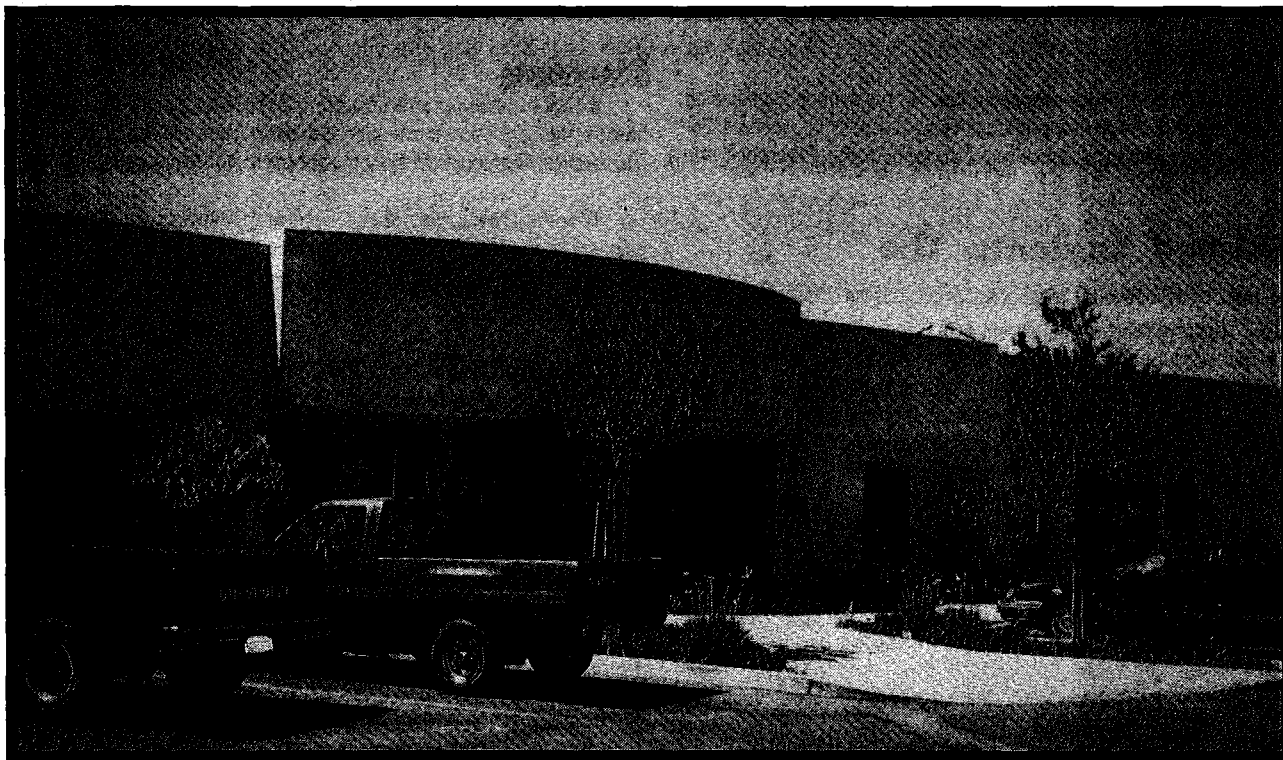
Voluntary Field Trips

Throughout the school year, the district may sponsor voluntary field trips and excursions in which you may want to participate. Be advised as stated in the California Code of Regulations, Sub Chapter 5, Section 55450, if you participate in a voluntary field trip or excursion, you are deemed to have held harmless the district, its officers, agents and employees from all liability or claims which may arise out of or in connection with your participation in this activity.



*"Ability may get you to the
top--but it takes character to keep
you there."*

Unknown Author



COS Child Development Center



"In the middle of every

DIFFICULTY

lies opportunity."

Albert Einstein

AmeriCorps Program

Students may apply to participate in this federal volunteer program that provides the opportunity to: 1) gain experience in providing literacy tutoring to local preschool and K-3rd grade children, 2) offer service to the community, 3) earn units towards a vocational certificate, graduation and/or transfer, and 4) learn marketable job skills.

Upon completion of service obligation, AmeriCorps members receive an educational award of \$2,363 that is kept in trust for future educational expenses. For additional information, contact the AmeriCorps Director in Room 4, Extension 6145.

Associated Students, The

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 are 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, Commissioners of Activities, Clubs, Records, Finance, Publicity, 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.

Audio Visual

Hours:

Monday through Thursday 7:30 a.m. to 7 p.m.
Friday 7:30 a.m. to 4:30 p.m.
Saturday 12 noon to 4 p.m.

Audio Visual services are available in the Media Center located on the ground floor of the Instructional Media Center wing just west of the Library. In the AV Student Media Lab, students can view and listen to video tapes, videodiscs, compact discs, slide/tape programs, filmstrips and audio tapes.

As assigned by instructors, the following services are also available: video and audio tape editing, video and audio tape duplication, preview rooms, equipment check out, (camcorders, overhead projectors, slide projectors and cassette recorders), and overhead transparencies.

Bookstore

The COS Bookstore welcomes you to the College of the Sequoias. Conveniently located on campus, the bookstore carries textbooks and supplies as well as clothing, gifts, and other merchandise. Visit our web site at <http://bookstore.sequoias.cc.ca.us> for textbook information and upcoming events.

Phone in your textbook order or reserve your books on the Internet! For information, find us online at <http://bookstore.sequoias.cc.ca.us>, or call us at (559) 730-3751.

The COS Bookstore encourages you to visit the store before the semester begins to avoid the long lines during the first week of class. It would be helpful to bring a copy of your class schedule with you while shopping for your textbooks. Textbooks are arranged by department, course, instructor, and section number. Textbooks are priced on the self tags below the books.

Discounts

It pays to purchase an ASB card! You will receive a coupon for new books at the COS Bookstore as well as additional discounts on all clothing and gift merchandise throughout the semester when you present your card.

Personal checks, Visa, Master Card, and Discover are accepted for payment provided a drivers license and student ID number are presented. All returned checks are turned over to Sequoias Check Collection and assessed a \$30.00 service fee.

Refunds and Exchanges

A COS Bookstore receipt must be presented for any refund or exchange. Refunds on required textbooks will be given through late registration. For more information on the refund policy, visit our web site or stop by the COS Bookstore. New books must be in perfect condition to return. Books and/or software which have "shrink wrapping" must still be sealed.

Buy Back Policy

The COS Bookstore will sponsor a Buy Back for students wanting to sell their books for cash. Books needed for the upcoming semester may be bought at 50% of the new price. Wholesale prices may be offered for current editions no longer needed on campus. Although a receipt is not required, you will be offered more cash back when you present your COS Bookstore receipt.

Hours

SPRING AND FALL SEMESTERS

Hours: Monday-Thursday 7:45 a.m. - 7:00 p.m.
Friday 7:45 a.m. - 4:00 p.m.

SUMMER SEMESTER

Hours: Monday-Thursday 7:45 a.m. - 5:00 p.m.
Friday 7:45 a.m. - 11:30 a.m.

NOTE

Extended hours during registration

The staff at the COS Bookstore is here to serve you. If you have any questions or requests, please feel free to contact us.

Beck Covington, Bookstore Manager	730-3821
Dorianna Gomes, Bookstore Operations Coordinator	730-3759
Marcy Dias, Textbook Buyer	730-5750
Josie Cote, Special Accounts, Programs & Scholarships	737-6155
Alice Hernandez, Merchandise Buyer	737-6131
Jim Anderson, Shipping & Receiving	737-4837

CalWORKs Program

The CalWORKs program receives funds from the California Community College Chancellor's office to partner with a variety of agencies in order to provide training and support services to students who are welfare recipients. Funding includes provisions for job development and placement, program coordination, curriculum development and redesign, childcare, work-study, and, under limited circumstances, instruction. CalWORKs funding is intended to augment existing services, both at the campus and in the community.

Campus Parking

Parking facilities on campus are extremely limited. Students are encouraged to participate in car pools or ride 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 ALL PARKING regulations. Citations may be issued by the Campus Police 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 Campus Police Office.

Students wishing to park on campus must pay a fee for a semester parking sticker. The cost is \$15 for full-time and part-time students. Permits must be paid for at the Cashier's Office and picked up at the Campus Police Office. Business hours are 7 a.m. to 9:30 p.m., Monday through Thursday; and Friday, from 7 a.m. to 5 p.m.

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, 6, 7 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.

Refund Procedure:

- Apply for parking refunds at the Campus Police Office in Lot 1.
- A \$3 service fee will be deducted from all full-time and part-time permit refunds.
- Parking permits or remnants must be returned to the Campus Police Office before refunds will be processed.
- A refund check will be mailed in 6-8 weeks.
- 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.

Career/Transfer Center

The Transfer/Career Center is located in the Student Services Center, Room 106.

The 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; catalogs and a reference library; applications for the CSU and UC systems; and information sheets regarding the CSU and UC admission requirements.

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.

The Center also provides students with assistance in finding employment to help pay the costs of their education. A job board provides a listing of local on/off campus positions. Students may use the Center's computerized self-referral system for direct connection with employers. The Center hosts workshops in career and job related topics such as interview techniques, resume preparation and labor market information.

Child Care

The Child Development Center serves as a training laboratory for students in the Child Development Program, students going into the child care business, as well as parents and community members. The professionally staffed child development center offers an exemplary early childhood education program. The facility is located at 1945 West Meadow Lane, Visalia.

At this center, child care is provided for GAIN/JTPA participants with some openings for other COS staff and students.

Call the Training Center if you have any questions about qualifications and referral to other child care services--730-3918.

Clubs and Organizations

Students are encouraged to become active in one or more of the various clubs at COS to enrich and round-out 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 located in the Student Activities Office, Room 112..

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, Room 112.

An "Activity Hour" is scheduled on Tuesdays and Thursdays at 12 noon for activities. It is set up so groups can plan meetings, social activities, and assemblies when most students are free to attend. An effort is made to schedule a minimum number of classes during these hours.

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 Educational 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 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

Student Services

documented in a Student Educational Plan which reflects the current goal of a student. Students wishing to change their goal should see a counselor to revise their Student Educational Plan.

Counselors are available during the day either by appointment or on a walk-in basis. Evening counseling is available 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 (559) 730-3741, or 730-3715. To schedule a counseling appointment on the Hanford campus, students may call (559) 585-3933.

Deaf and Hard of Hearing Services

COS employs a lead interpreter to coordinate academic support services for the deaf and hard of hearing 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 (TTY); and a personal FM system.

For additional information, contact the Disabled Student Programs and Services' Office, 915 S. Mooney Boulevard, Visalia, CA, 93277, or telephone (559) 730-3805, (TTY 730-3913).

Campus Police Department

The COS Campus Police Department 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 Campus Police Department 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 cars and lockers and not leave valuables unsecured in hallways or dressing rooms. Do your part to prevent crime on campus by reporting all suspicious activity to the Campus Police Department.

The Campus Police Department is located in Parking Lot 1 off Meadow Lane. Call 730-3999.

Disabled 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; test accommodations; and adapted physical education. Further information may be obtained by contacting the Disabled Student Programs and Services' Office, 915 S. Mooney Boulevard, Visalia, CA, 93277, or telephone (559) 730-3805. (TTY 730-3913).

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 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, Room 108, for information and assistance.

C A R E

(Cooperative Agencies Resources for Education)

CARE is the combined effort of Public Social Services and Extended Opportunity Programs and Services of the College of the Sequoias.

CARE will assist single parents receiving TANF (Temporary Assistance to Needy Families) to:

- › Increase their educational skills
- › Enhance their employability
- › Become more confident and self-sufficient
- › Move from TANF to independence

Students eligible for student financial aid may receive an augmented grant for child care expenses.

For more information about CARE, inquire in the EOP&S Office, Room 108, or call 730-3818.

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 Free Application for Federal Student Aid (FAFSA). Application materials and detailed instruction booklets will be available at California high school counseling offices and/or College of the Sequoias Financial Aid Office after January 1 of each year. For further information, please contact College of the Sequoias Student Financial Services Office in Room 103B. Limited Financial Aid Services are offered at the Hanford Center.

Food Services

College of the Sequoias offers its students three food service areas.

A snack bar (food court) with an outside seating area is located at the south end of the Business building. The snack bar offers a variety of snacks, which include candies, ice-creams, crackers, cookies; a variety of drinks, light lunches and sandwiches. The snack bar is open 7 a.m. to 9 p.m. Monday through Thursday, and Fridays, 7 a.m. to 2 p.m.

There is an outside seating area west of Room 104 (registration area) where there is a snack bar (coffee shop) which also serves sandwiches and a variety of drinks. The coffee shop is open from 7 a.m. to 5 p.m., Monday through Thursday, and Fridays, 7 a.m. to 2 p.m.

Carl's Jr. and a "taco bar" are located in the old Student Union. They are open Monday through Thursday 7:30 a.m. to 7:00 p.m. and Fridays 7:30 a.m. to 1:00 p.m. Both breakfast and lunch are served. Breakfast orders end at 10 a.m.

Housing Services

The Student Activities Office provides a Housing Bulletin Board to assist students in locating apartments, rooms, and houses in the local area. Anyone interested in posting a listing should stop by the Student Activities Office Room 112 or call 730-3736. The Housing Bulletin Board is located near Room 109. There are no dormitories on campus.

Insurance Coverage for Students

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

Learning Center

Learning Center Hours

Monday through Thursday	8:00 a.m. - 8:30 p.m.
Friday	8:00 a.m. - 4:00 p.m.
Saturday	12:00 p.m. - 3:30 p.m.

The Learning Center is closed during holiday weekends and school breaks. Summer school hours will be posted at the entrance.

The Learning Center, with 48 computers networked with a wide variety of library resources and course tutorials, plus word processing, graphic, and spreadsheet applications and Internet access, is open to all COS students, faculty and staff, once they've registered for a free account. Librarians and Learning Center staff are on hand if students need help in registration. Guidelines for appropriate Learning Center computer use are posted throughout the Learning Center. Learning Center computers are for instructional use only-- games are not permitted.

Many of the Learning Center computers plus two workstations provided by CSU Fresno access the book collection at Fresno State's Madden Library and a number of very useful periodical/index/full text sources.

Library

Library and Media Lab Hours*

Monday through Thursday	7:30 a.m. to 9 p.m.
Friday	7:30 a.m. to 4 p.m.
Saturday	12:00 p.m. to 4 p.m.

*The library is closed during holidays, Sundays, and school breaks. Summer school hours will vary and will be posted at the entrance.

The COS Library is located at the center of the campus. All COS students, faculty and staff are welcome to use the library for class related research, study, reading, viewing and listening, and for developing personal knowledge. Due to our cooperative agreement with CSU Fresno, CSUF Center students, faculty and staff are also welcome to make full use of Library Services.

The Library's main floor houses reference services and materials, the reserve book collection, the general book collection ranging from Dewey numbers 400 to 999, the pamphlet files, and circulation services. The main floor also houses the Learning Center, an open access computer lab in which 48 computer workstations are networked with a wide variety of resources, course tutorials, word processing, graphic and spreadsheet applications, and access to the Internet. All students may register for a free Learning Center account which allows use of any of the Learning Center computers according to the guidelines posted throughout the area. Study space on the main floor is limited, with the tables near the law and reference collections reserved for use of those materials. However, students will find a spacious quiet study area in the Periodicals Room.

The balcony area overlooking the main floor houses the general collection, Dewey numbers 001 to 399. An exit at the right end of the balcony leads to an outdoor stairway. A sign at the top of the stairway points the way to the Student Media Lab, left, and to the Periodicals Room, straight ahead.

The Periodicals Room, straight ahead at the top of the stairs, houses the Library's periodical collection of over 420 magazine and newspaper subscriptions. The Periodicals Room also houses print and computer indexes to the periodical collection, several microfilm reader-printers, a typewriter for student use, and a large study carrel area. Six small conference rooms for group study are available to students on a first come, first serve basis. Photocopy machines are located in Periodicals and near the main floor reference area.

The 60,000 plus books in the general collection and the 18,000 books in the reference collection have been selected to complement and support classes taught at COS. These book collections are accessed by six computer terminals located on the main floor near the reference desk. The card catalog can still be used to locate books purchased before 1992.

Reference librarians are available at the information desk to help library users develop search strategies, track down the information they need via the Learning Center computers and print collections, and provide classroom instruction on research strategies. When it's necessary to go outside the COS Library collections to find needed research materials, reference librarians will provide interlibrary loan service whenever it's feasible.

The COS Library is committed to providing college library service to the students, faculty and staff at the COS Hanford Center. A reference librarian is available to the small Hanford Center Library a number of hours each week to help library users locate the information they need and to provide bibliographic instruction in the classrooms. Although the schedule varies semester by semester, the hours are always posted at the Center. From the Center Library, Hanford students can access the COS computer catalog, locate books on the topic they're researching, and request delivery of four books weekly to the Hanford Center. A computer index to periodicals, ACADEMIC ABSTRACTS, indexes for over 700 journals, 300 of which are in the COS Library's periodicals collection. Hanford students may print out bibliographies of periodical citations from ACADEMIC ABSTRACTS and request photocopies of articles from those magazines held by the COS Library, to a total of four copies per week. These photocopies generally arrive by fax at the Center within a couple of days of the request. Students may also print out full text articles from 90 of the journals indexes in ACADEMIC ABSTRACTS at ten cents a page. The Hanford Center Library also houses a small reference collection.

MESA Program

The MESA Program (Mathematics, Engineering Science Achievement) is a state-funded program that assists students declaring intent to transfer to a four-year institution and to major in a Math/Science based field (i.e., Science, Engineering, Computer Science, Math, Chemistry, Biology, Agriculture, and Health Science). The MESA Program targets students who are eligible for EOP&S or for a Board of Governor's Grant Waiver.

MESA students receive tutorial assistance, Math/Science workshops, academic advising, tours, and networking with four-year universities and industry. The MESA Center is also available to any student needing short-term help in math or science courses. For further information, please call the MESA Center at 737-4826 or 737-4827.

Mini-Corps

COS houses a Mini-Corps Program for students with a migrant-farm working background, and who plan to go into bilingual education. Those students serve as role models and tutors for migrant children in our local schools.

Participants must have at least a 2.0 G.P.A., a financial need, a flexible schedule and be a full-time student with access to a vehicle. Students will be paid a monthly salary of approximately \$270.00 for an average work week of 10 1/2 hours.

Students interested in the program should contact the Mini-Corps Office in Room 108C or call 730-3958.

Orientation Services

Orientation is a required activity for all newly matriculated students at College of the Sequoias. A comprehensive orientation program includes an hour general information session, one small group session, an individual counseling appointment and the development of a Student Educational Plan. The entire process takes approximately 2 hours; a student is then ready to register for classes through telephone registration.

Additional orientation activities occur during the academic semester. A set of college survival workshops are offered to assist students in the development of their study skills throughout the semester. Math, Test Anxiety and Time Management are examples of some popular workshops. Contact the Student Assistants in the Student Services Center for information regarding the dates and locations of the workshops.

Puente Project

The Puente Project was founded in 1981 by the Co-Directors, Felix Galaviz and Patricia McGrath, at Chabot College in Hayward, California. The Program mission was to increase the number of Mexican-American and Latino community college students who transfer to four-year colleges and universities. As an outgrowth of its success as a community college program, Puente was awarded funding in 1993 to replicate the program in 18 California high schools. Puente is open to all students.

The mission of the Puente Project is to increase the number of educationally underserved students who enroll in four-year colleges and universities, earn degrees, and return to the community as leaders and mentors to succeeding generations. There are three components to the program:

- 1) English Instruction: Puente students take two consecutive writing classes, English 251 in the fall and English 1 in the spring. The content of the courses focus on Mexican-American/Latino authors and issues;
- 2) Counseling: Puente students work closely with their Puente counselor until they graduate. Students also enroll concurrently in Human Development 120a-b, a study skills course, and;
- 3) Mentors: Each Puente student is matched with a mentor from the business or professional community. Mentors share with students their personal, academic and career experience, and provide a window into "real-life" work environments.

Students attend an annual Puente conference and visit universities. Puente is open to all students. For more information, call Teresa Guadiana, Puente Counselor, at 730-3853 or Joni Jordan, Puente English Instructor, at 730-3957.

Re-entry Services

Students entering or returning to college after a considerable absence from school, will receive special support services at COS. Contact the Student Assistants in the Student Services Center for general information and referral.

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 \$150 to \$6,000 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 the Administration Office. Contact the Scholarship Office for application deadlines.

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, Room 112.

Study Abroad Program

You can earn full college credit while studying abroad in programs that take advantage of your location to study art, literature and other subjects first hand. Contact the Dean in Room 550 for more information. Programs available in 2000-2001.

London, England--Fall 2000
Florence, Italy--Spring 2001
Salamanca, Spain or Costa Rica--Summer 2001

Student Health Center

Services offered have evolved based on student need. Current services include blood pressure screening, T.B. skin testing, vision and hearing screening, immunizations, health counseling, pregnancy testing, psychological counseling, 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. 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. Contact the Health Center for more information.

A \$11 health fee is charged to all COS students enrolled in units for Fall and Spring semester classes or the Community Service Option and an \$8 health fee is charged for Summer Sessions. If you have any questions, contact the Health Services Coordinator at 730-3880 or 730-3881.

Tutorial Center

The Tutorial Center provides individual or small-group tutoring free of charge to any student who wants to improve his/her class performance. Tutors are available for most classes. 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 Tutorial Center is located in the northeast corner of the Library Building and is open from 7:30 a.m. to 8:00 p.m., Monday through Thursday and from 7:30 a.m. to 4:30 p.m., Friday.

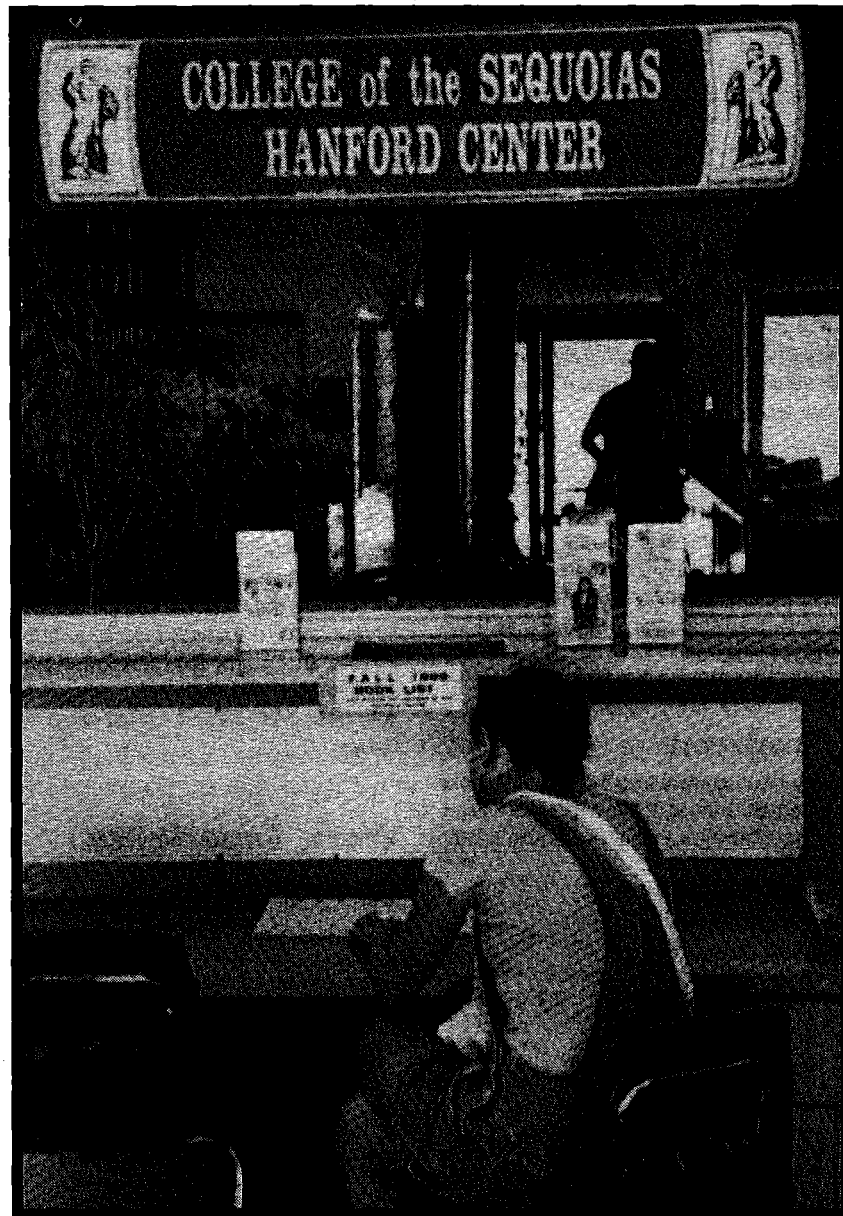
Veteran's Educational Benefits

College of the Sequoias is approved for training of veteran students under the provisions of State and Federal law. Dependent's Educational Assistance is also available to children and dependents of service-connected disabled or service-related deceased veterans. Students planning to attend the college and request certification for Veteran Benefits should contact the Veteran's Office at (559) 730-3854 or visit office 103B 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. For more information, please contact the Veterans' Program Specialist at (559) 730-3854. Limited Veterans' Services are available at the Hanford Center.

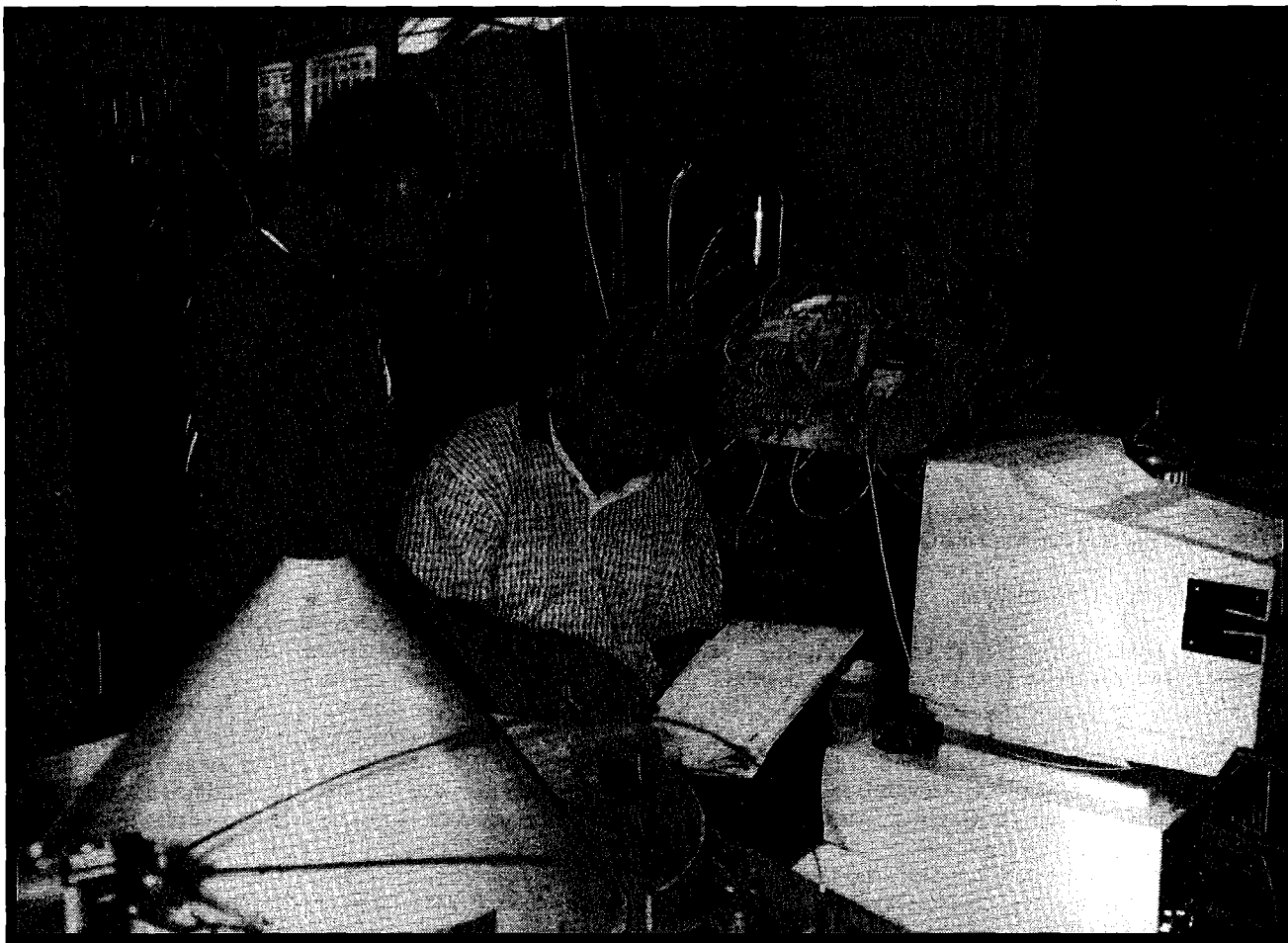
Work Experience

The Work Experience Program offers students the opportunity to earn elective credit (1-4 units) related to work they are doing within the community. This program is open to all majors with acceptable employment (paid or volunteer). Students interested in participating may contact Lisa Greer in the Career/Transfer Center or call 730-3742.



*"You were born an original...
Don't die a copy."*

John Mason



*"Life is what happens to us
while we're making other plans."*

John Lennon

Divisions

Agriculture

Larry Dutto, Chairperson

Tulare County is the leading Agriculture producing county in the nation and agriculture is the largest industry in California. COS is located in the center of this county and there are numerous educational and career opportunities for those students attending COS.

A student can complete a certificate, degree or become general education certified to transfer to a four-year university. The COS Agriculture Department offers numerous evening and short-term classes for the upgrading of skills for individuals who are already employed in the agriculture industry.

The future is exciting for the division with the proposed relocation of the COS Agriculture Department Laboratory from its current facility to a new facility. The proposed laboratory will consist of 200 acres of diversified crops, livestock and equine facilities. The COS Dairy program will be part of the California Dairy Technology Center which will operate a 1,000 cow commercial dairy, research herd and COS students will work with U C Davis Vet students. The California Dairy Products Training Institute (CDPTI) operates a dairy processing facility.

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 department maintains the most modern welding and fabrication shop in the entire community college system.

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

Extracurricular activities are a vital part of the COS Agriculture Department. Several clubs such as the Ag Business, Dairy, Horse and Ag Council offer students leadership skills. COS serves as the headquarters for the California Community Colleges Agriculture/National Resources Organization of Student Leaders. This organization offers leadership training for students and a statewide competition in a variety of skill based training.

Faculty in the Agriculture Department are experts in their disciplines and are dedicated to teaching. There are several adjunct faculty from the agriculture industry who teach in a variety of areas which enhance the educational opportunities for students. Faculty and staff are eager to help students learn and are available as agricultural counselors and advisors.

Business Division

Linda Kennedy, Chairperson

Good jobs will increasingly depend on people who can put knowledge to work. The COS Business Division continues to keep pace with the work force needs, providing the knowledge necessary to prepare for those workplace requirements.

There is an explosive growth of technology on the job. With this ever-increasing need for information and computer skills, the Business Division provides hands-on experience in:

DOS	Windows	Access
WordPerfect	Computer Accounting	Word
Front Page	Page Maker	Excel
World Wide Web		

Business

Linda Kennedy, Chairperson

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. Students work on their own computer in the classroom and have access to computer labs at other times.

A student may select a concentrated field of study in accounting, general business, marketing, computers, information services/word processing, real estate, or secretarial. Any of these fields will lead to a certificate when the student completes approximately 30 units in the chosen program. 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 provides the course work necessary for transfer to a four-year university, to receive an AA/AS degree, a certificate, and/or to be skilled to enter the work force--ready for the challenges of the new century.

Paralegal Program

The objective of the Paralegal Program is to train students to work in a legal office environment. The Paralegal major is approved by the American Bar Association. A paralegal is a person qualified by education, training or work experience who is employed or retained by a lawyer, law office, corporation, governmental agency or other entity and who performs specifically delegated substantive legal work for which a lawyer is responsible.

A paralegal is not an attorney and, therefore, cannot give legal advice or represent another in court, except under very limited circumstances provided by law. This is not a four-year transfer program or a pre-law program. Students admitted into the program must have a high school diploma or have passed an equivalency examination. Because of the standards set by the American Bar Association, the Paralegal major places additional general education requirements for graduation. Consult the Paralegal General Education Pattern listed on the major and certificate page for paralegal in this catalog. The program includes work experience and assistance with job placement.

Consumer Family Studies

Debb Campbell, Chairperson

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 development of children and relationships with them. The child development

Consumer Family Studies

Debb Campbell, Chairperson

program provides classes for persons wanting to work in private child care programs and preschools; classes to earn a Child Development 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 39 and 42 are Area D transfer general education classes; and CFS 80 is an Area E transfer general education class. Two vocational certificates 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 suitable for an individual's or family's lifestyle. CFS 186 is 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, clothing construction, color/image or modeling and includes classes for an AA/AS degree and/or a transfer option. Fashion 179 counts as an Area D transfer general education class. Two 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. Three vocational certificates are available in the Food Service Program.

Nutrition/Foods is designed to help students select, purchase and/or prepare nutritious foods to fit specific lifestyles, budgets and abilities. Nutrition/Food 18 counts as an Area E general education transfer class and an Area B (science) general education class for an AA/AS degree.

Counseling, Health Services and Cooperative Education

Sharon Black, Chairperson

Counseling

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 Educational 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 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 a Student Educational Plan which reflects the current goal of a student. Students wishing to change their goal should see a counselor to revise their Student Educational Plan.

Counseling, Health Services and Cooperative Education

Sharon Black, Chairperson

The purpose of Interdisciplinary Studies 220 (orientation) for students at College of the Sequoias is to prepare students for a successful entrance into college life. With the introduction of the supportive services at the College through orientation, students become informed of the resources available to them. Students also become aware of their rights and responsibilities.

The Human Development courses demonstrate the College's commitment to provide courses in skill development. The Human Development courses provide a continuum of support and skill development related to college. Currently, these courses are primarily offered to special program students, particularly disadvantaged and under represented, i.e., Puente, EOP&S, LISTO. In Fall 2000, the general population students will have the opportunity to select these courses.

Health Center

Services offered have evolved from student need and will continue to expand as needed. Current services include blood pressure screening, T.B. skin testing, vision and hearing screening, immunizations, pregnancy testing, glucose screening, and nursing assessments. The Student Health Center staff will assist with counseling referrals for drug and alcohol abuse, mental health, domestic/relationship violence, eating disorders, pregnancy, family planning and illness. Alcoholics Anonymous and other support groups are coordinated by the Student Health Center. A rest area and a variety of over-the-counter medications are available for students.

Family Planning/Contraceptive Care and limited primary care services may be available at no or low costs through contract with local, mobile community clinics.

Health education information and materials are available in the Student 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 Student Health Center.

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.

Cooperative Work Experience Education is dedicated to providing education and training which affords students the opportunity to prepare for entry into the job market. Combining work experience with regular college instruction, students have the opportunity to develop skills and knowledge and to improve self-understanding by integrating classroom study with planned, supervised work experience.

Disabled Student Programs and Services (DSP&S)

The Disabled Student Programs and Services' Office works individually with students having physical, communication and learning disabilities, acquired brain injuries and psychological disabilities to enhance their accessibility to and success in classes and activities at COS.

Divisions

Counseling, Health Services and Cooperative Education

Sharon Black, Chairperson

Services include academic, personal and vocational counseling, specially designed parking, mobility assistance, notetakers, resources for the visually impaired, specialize equipment, learning skills lab and adapted physical education.

Other services include in-class interpreters (oral, manual and total communication), specialized tutoring, and specialized telephone equipment (TTY) for the deaf and hearing impaired.

Through the provision of these services the DSP&S Office attempts to maximize the disabled student's potential and to facilitate success in all areas of life.

Extended Opportunity Programs & 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 and educationally disadvantaged. Academic and personal counseling is emphasized and progress is monitored. Tutoring, supportive social services and student advisors are available to enhance student success.

Students who are single heads of household, receiving TANF benefits, with children under 14 years of age may be eligible for additional funding under the CARE Program.

A special Summer College Readiness Program is offered to entering freshman.

Fine Arts

Cynthia Johnson, Chairperson

The Fine Arts Division is comprised of the Art, Music, Theater Arts, Speech, Dance and Photography departments. We are continually presenting concerts, recitals, art showings, and productions to the school and the community at large. Additionally, we are actively involved with school activities such as homecoming and Graduation.

As a vital part of a well-rounded education, the Fine Arts Division offers a wide breadth and depth of courses that will satisfy and challenge the potential of each student. Among the multitude of classes in art, students can choose to take exciting courses in ceramics, stained glass or lithography. Or, for the Performing Art bound, students can choose from courses in costume and design to Shakespeare, or challenge themselves in an appreciation of a jazz course or a recital course. For students interested in Speech, they can broaden their insight in courses that range from basic Public Speaking all the way to Argumentation and Debate or Intercultural communication. The Fine Arts Division has courses to meet any students' needs.

This division has recently begun a Fine Arts Foundation fund to assist us in presenting the very finest performing and visual arts we can possibly offer. Additionally, with the assistance of this fund, we can continue to stress and display quality work that is a reflection of the greatness within our faculty and students.

Industry and Technology

Dick Shirk, Chairperson

The COS Industry and Technology Division is dedicated to serving the needs of all students interested in furthering their industrial education at the college level. Our seven departments provide educational opportunities for students seeking job skills needed for employment, transferable credits for students who plan on transferring to a university and opportunities for persons wishing to upgrade their job skills in order to advance in their current jobs.

The Industry and Technology Division offers Associate of Science Degrees and Certificates in: Automotive Technology, Architecture, Building Trades (construction technology), Drafting, Electronics, Electrical Wiring, Graphic Design, Heating Ventilation and Air Conditioning, Industrial Maintenance, Plumbing, Technical Illustration and Welding.

The Industry and Technology Division stresses quality teaching/learning through formal classroom lecture/discussion methods as well as plenty of hands on "learn-by-doing" in our well equipped laboratory facilities.

Language Arts and Communications

David Robinson, Chairperson

The Language Arts Division encompasses several departments: English, English as a Second Language, Foreign Languages, Sign Language Studies, and Journalism. Some 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, French, or ASL fulfill foreign language requirements of the UC system as well.

Most students at COS take composition courses to fulfill either transfer or graduation requirements or to enhance their writing skills. Faculty in the English Department help students improve reading, writing and thinking abilities, all of which are necessary components in any major field of study. The composition courses vary in entry skill level from very basic writing, where students learn to develop and sharpen their writing, to the critical thinking courses, in which students tackle issues and elements of logic. In addition to the composition courses, the department offers a wealth of courses in literature from survey courses, such as Introduction to Literature, to ethnic courses, such as Chicano Literature or Native American Literature, to period literature, such as Shakespeare or American Literature. The department has been foremost in the development of teaching in cyberspace! Several courses are offered online, allowing students to meet minimally on campus and to do the majority of the coursework from their own homes. For students who need greater access to computers than the Learning Center can give them, the Language Arts Computer Lab provides ample opportunity for students to write papers, conduct research and complete Web-based assignments. Many instructors use the lab as a classroom for part of their courses. The English Department also houses the Puente Project, a transfer program for students interested in studying Latino culture and issues and in transferring to the University of California. An English major prepares a student for a number of professional opportunities--law, teaching, publishing, broadcasting, journalism, and many more. Increasingly, employers demand strong reading and writing skills of their employees, in addition to the ability to work with a variety of people successfully. The courses of study within the English Department emphasize growth and communication and the ability to live life more deeply.

Language Arts and Communications

David Robinson, Chairperson

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 transfer courses in French and Spanish, while Community Service classes allow students to take non-transfer conversation courses in German, Spanish, Japanese, Russian, Hebrew and many other languages. Both options allow students to choose the class that best meets their needs. The Foreign Language Department believes that it is in the interest of all students to become bilingual or fluent in many languages in order to compete in today's global community. Therefore, the instructors in the department provide a sequenced program of courses that support the goal of fluency in speaking, reading, writing and comprehension. Besides offering French 1-4 and Spanish 1-4, the department also features a vital Spanish for Spanish Speakers Program (Spanish 22-24) and a survey of literature (Spanish 12). The Spanish program and instructors have been particularly active, sponsoring the campus MECHA club and offering students opportunity for study abroad.

Sign Language was introduced at COS in the early 1980's. From a few evening classes, the ASL (American Sign Language) department has grown into a vibrant program. Currently, students can take four levels of ASL. An interpreting course has recently been implemented. This course will train students who are interested in becoming qualified interpreters for the deaf, as well as teachers of the deaf.

The Journalism department is responsible for the production of the campus newspaper, named The Campus. 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 computers for composing news stories and paginating pages, 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.

Math and Engineering

George Woodbury, Chairperson

The Mathematics Department provides educational opportunities ranging from basic math to calculus. The department also offers courses in statistics and computer programming. The Department's new facilities include a computer laboratory, and a math lab which offers courses taught in a laboratory setting rather than the traditional lecture format. In addition, there is walk-in tutorial help for any math student in the Math lab during its hours of operation. Tutors and an instructor will be available during those times to assist students.

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, UC Davis and UC Santa Cruz, which automatically accepts transfers from this program into the third year of study. The Physics area offers both a calculus-based physics series and a non-calculus based physics series. Other related courses taught in this area include Astronomy and Physical Science.

Nursing and Health Science

Cindy DeLain, Chairperson

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 an Emergency Medical Technician course; a Certified Nursing Assistant course; a Home Health Aid course; and an Associate Degree Registered Nurse Program as well as a variety of courses designed to meet the health education needs of the community. 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 Board of Registered Nursing. 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 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 with the skills needed to safely and effectively meet community health care needs. The Division welcomes applications from qualified men and women of all ages, races and ethnic origin groups. Students who are interested in health care education are encouraged to visit the 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.

Three options are available to Licensed Vocational Nurses wishing to become Registered Nurses, including the 30 unit option as prescribed by the California Board of Registered Nursing. Detailed information is available in the nursing office.

Registered Nursing

College of the Sequoias Registered Nurse Program is a two year program

Divisions

Nursing and Health Science

Cindy DeLain, Chairperson

leading to an Associate in Science degree. This program is approved by the California Board of Registered Nursing and successful completion of the nursing requirements qualifies the graduate to apply to take the National Licensing Examination for Registered Nurses.

Admission Requirements

In order to be considered for admission to the Registered Nursing Program each applicant must meet the College of the Sequoias requirements for admission, be in good standing, and satisfy the following specific requirements for admission to the Registered Nursing Program.

1. Graduation from an accredited high school, or equivalency (GED).
2. Maintenance of a 2.5 or higher G.P.A. overall and on all required pre-nursing courses.
3. Residents in the College of the Sequoias Community college District receive priority. Residents of adjunct districts which do not have a Registered Nursing Program have second priority.
4. Completion of Nutrition 18 (Nutrition), Biology 30 (Human Anatomy), Biology 31 (Human Physiology), Biology 40 (General Microbiology), Chemistry 20 (General Chemistry), English 1 (College Reading and Composition), Psychology 1 (General Psychology), Speech 1 (Fundamentals of Public Speaking) or Speech 104 (Interpersonal Communications), or Speech 8 (Group Communication) and either Sociology 1 (Introduction to Sociology), Anthropology 10 (Cultural Anthropology), or Nursing 106 (Cultural Diversity in Health and Illness) at College of the Sequoias, or equivalent classes at other accredited colleges.
5. Satisfactory completion of required college application and Registered Nursing Program application and information forms, and submission of high school and college transcripts for all schools attended previously.
6. Because there are many more applicants than seats in Nursing 101, a selection process is used to determine the most qualified candidates. A point system is used based upon student achievements including grade point average, and work experience. Information regarding this point system is available in the Nursing Division Office or from Counselors.
7. Students must provide their own transportation to clinical agencies and must have a valid California driver license, access to transportation, and insurance as required by California law.

Transfer and Challenge

The Division of Nursing may grant credit for previous nursing education. Information and advising about transfer and challenge policies is available in the Division of Nursing.

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,

Nursing and Health Science

Cindy DeLain, Chairperson

transfer and challenge, retention, grading and probation, and graduation are available in the nursing office.

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, is stated in the Nursing Student Handbook.

Application Procedure

A class is admitted to the RN program each semester. The final date for filing applications is January 15. The deadline for receipt of required supporting documents is January 30. Both the August and January classes will be filled from the applicant pool. If the number of applicants processed in January is not sufficient to fill both classes, a supplementary applicant pool will be developed from those applications received between January 15 and July 15. Applicants will be notified when this occurs.

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.

Physical Education

Tracy Myers, Chairperson

Physical Education uses physical activity to produce holistic improvements in a person's physical, mental and emotional qualities. It treats each person as a unit--a whole being--rather than as having separate physical and mental qualities that bear no relation to and have no effect on each other.

Here at College of the Sequoias, physical education covers a broad field of interests. Courses are offered in the areas of Sport Activities, Dance, Fitness and Health, Sports Medicine and Athletic Training, and Adapted Physical Education. We are also proud of our outstanding Intercollegiate Athletic program which offers collegiate competition to student/athletes.

The facilities include a newly equipped gymnasium, weight room, dance studio and aerobic room with mirrors, 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 and volleyball courts in addition to a "mini" golf course. Most recently the department has added a new sports medicine and training center which includes a fitness lab.

Through the courses offered in the Physical Education and Athletic Department, we are preparing students to meet the physical, mental and emotional needs of the 21st Century.

ScienceThea Trimble, Chairperson

The Division of Science at College of the Sequoias consists of the Departments of Biology, Chemistry, and Physics. Major programs are offered in each of these disciplines. Each of these areas offers a transfer program to either state colleges or universities. Other courses taught in this division are Geology, Physical Geography and Meteorology.

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.

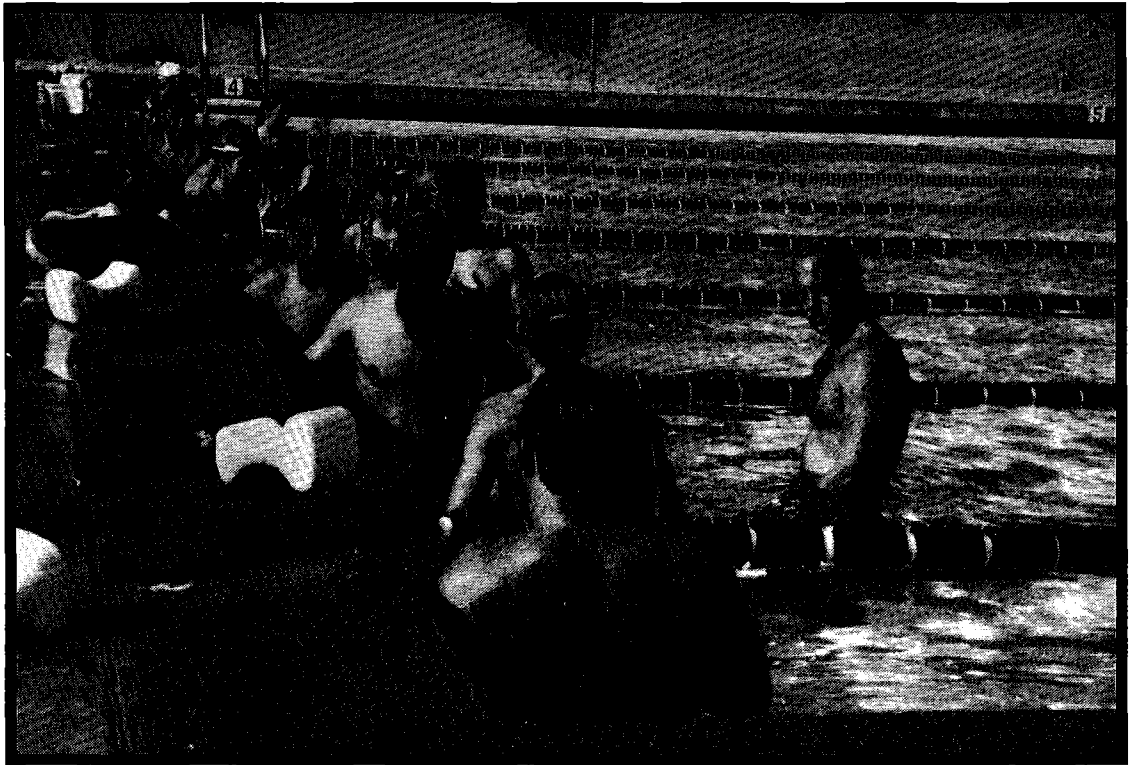
The Physics Department offers two series of physics courses. A three-semester calculus-based physics series is offered for those students entering the engineering fields, physics and some biology programs. A two-semester trigonometry-based physics series is designed for those students entering biological science fields.

Social SciencesRon McGriff, Chairperson

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. To this end, the Social Sciences Division feels it is imperative to champion the idea and ideals of diversity through our Ethnic Studies (and other classes, listed below) "Inclusion" is paramount. It is part of our mission to continue to be sensitive to the ever-changing demographics of the community we serve. We continue to promote access to transfer and skills for the world of work.

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.



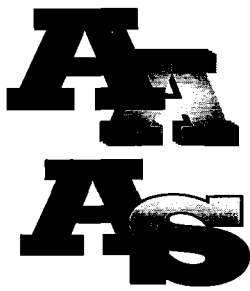
"I will prepare and some day my chance will come."

Abraham Lincoln



*"If you don't know where you're going,
any road will take you there."*

Unknown Author



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.

- In **personal development**, 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 their 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.

The Difference Between the AA & AS Degrees

Students at College of the Sequoias who complete the appropriate requirements may earn either an Associate of Arts or an Associate of Science degree. Both degrees represent significant levels of achievement and may be used by students who plan to start their career immediately after graduating or, with proper planning and course selection, by those who plan to transfer to a four year university.

Associate of Arts (AA) degree is granted to students majoring in the arts, humanities, social sciences, and similar areas.

Associate of Science (AS) degree is granted to students majoring in agriculture, engineering, technology, the sciences, and related programs.

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 courses 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.
- Completion of all courses required for the desired major (see major and certificate section of this catalog for specifics).
- Eighteen units of general education including at least three (3) units from each of the areas: A through E. However, completion of the CSU or IGETC general education requirements or general education requirements at any accredited university will fulfill the COS general education, subject, and competency requirements.
- Subject requirements:
 - a. 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 also available.
 - b. Three units of Health and Wellness. This requirement is satisfied by completion of Health and Wellness 1, 7, or 104. Degrees in Registered Nursing are exempt from this requirement; Veterans are also exempt with approved DD214 or DD295.
 - c. American Institutions:
 - ↪ Completion of a one-year high school Civics, U.S. History and/or Political Science course with a minimum grade of "C" or better in both semesters or
 - ↪ Completion of History 17, 18, 18H, Political Science 5, 5H, or Social Science 276, or an equivalent course at an accredited college.
- 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 in each area by one of the following:

 - a. **Writing:**
 - ↪ English 1, 251, or Business 184 at COS or an equivalent course at an accredited college with a grade of "C" or better.
 - ↪ CLEP English Composition or English Composition with Essay Examination (Score of 500 or higher).
 - b. **Reading:**
 - ↪ Score of 25 or higher on COS Reading Placement Test
 - ↪ Score at equivalent level or higher on test given by Reading Department.
 - ↪ English 1, 265a, or 265b at COS or an equivalent course at an accredited college with a grade of "C" or better.
 - ↪ CLEP English Composition or English Composition with Essay Examination (Score of 500 or higher).

Graduation and Transfer

- c. Mathematics:
- ⇒ High school algebra 1 and geometry (one each) with a grade of "C" or better, or a more advanced math course with a grade of "C" or better.
 - ⇒ Math 200, 201 or 205; and Math 220 at COS or equivalent courses at an accredited college with a grade of "C" or better.
 - ⇒ Math 230 or 235, or a more advanced math course at COS, or an equivalent course at an accredited college with a grade of "C" or better.
 - ⇒ Pass Math competency exam with a successful score (at least 70 percent)
 - ⇒ CLEP College Mathematics Examination (Score of 500 or higher)

Area A1 Written Communication

A minimum of three (3) units chosen from the following:

English 1, 1H
English 251
Business 184
CLEP English Composition or English Composition with Essay Examination. (Score of 500 or higher)

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

Area A2 Oral Communication and Analytical Thinking

A minimum of three (3) units chosen from the following:

Administration of Justice *25
Agriculture 201
Ag Management 102
Business 20, *25, 119, 295
Computer 5, 6, 7
English 2
Industry & Technology 201
Journalism **7
Political Science **7, *25
Philosophy 20, 25
Speech 1, 4, 5, 7, 8
Any Math course numbered 1-299
CLEP College Mathematics Examination (Score of 500 or higher)

* Administration of Justice 25 is the same as Business 25 and Political Science 25, and can be counted in one AREA ONLY (A2 or D)

** Journalism 7 is the same as Political Science 7, and can be counted in one AREA ONLY (A2 or D)

Area B Natural Science

A minimum of three (3) units chosen from the following:

Agriculture 3
Chemistry 253
Ornamental Horticulture 101

Nutrition/Food *18
Any Science course numbered 1-199 on The CSU GE Pattern in AREA B1 or B2
CLEP Natural Science Examination (Score of 500 or higher)
* Nutrition/Food 18 can be counted in one AREA ONLY (B or E)

Area C Humanities

A minimum of 3 units chosen from the following:

Administration of Justice 123
American Sign Language (1-299)
Anthropology *4, *5, *5H
Architecture 10, 20, 21, 120, 121a-c
Art (1-299)
Business* 185
Consumer/Family Studies **6, **7
English 4, 10, 15-46, 253
Foreign Language (1-299)
Interior Design 121, 124
Linguistics 10
Music (1-299)
Ornamental Horticulture 111
Philosophy (1-299)
Spanish 12
Theater Arts/Cinema Arts (1-299)
CLEP Humanities Examination (Score of 500 or higher)

* Anthropology 4, 5 are the same as Art 4, 5; Bus 185 same as I&T 185

** CFS 6 and 7 are the same as Art 6 and 7.

Area D Social/Behavioral Science

A minimum of three (3) units chosen from the following:

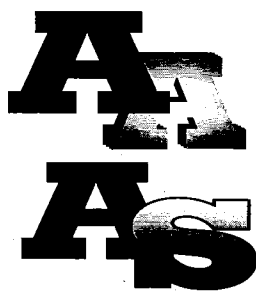
Agricultural Management 1
Administration of Justice 11, *25, 114
Anthropology 10
Business *25, 188
Child Development **39, 42, 158, 160
Economics 1, 2
Ethnic Studies 3, 101, 102
Fashion 179
Geography 2, 3
History 4, 5, 5H, 17, 18, 18H, 19, 20, 23, 31
Journalism #7
Nursing ##136
Political Science 5, 5H, #7, *25
Psychology 5, **39
Social Science 276
Sociology 2
Speech 9
CLEP Social Sciences/History Examination (Score of 500 or higher)

* Administration of Justice 25 is the same as Business 25 and Political Science 25, and can be counted in one AREA ONLY (D or A2).

** Child Development 39 is the same as Psychology 39.

Journalism 7 is the same as Political Science 7, and can be counted in one AREA ONLY (D or A2)

Nursing 136 can be counted in one AREA ONLY (D or E)



Requirements for Graduation

Area E Exploration

A minimum of three (3) units chosen from the following:

Computer 1-299
Consumer & Family Studies 80, *26, 186
English 14a, 14b
Health & Wellness 1, 7, **60, 104, 119
Library 102
Nursing 106, ##136
Nutrition/Food #18
Paralegal 101, 102
Psychology 1, 10, 133
Sociology 1, *26
Sports Medicine **60
Physical Education (1-299)
Any GE class listed in Area A1, A2, B, C, or D outside the major (e.g., a business major could not take an additional business class in Areas A2.)

- * Sociology 26 is the same as Consumer & Family Studies 26.
- ** Health & Wellness 60 is the same as Sports Medicine 60.
- # Nutrition/Food 18 can be counted in one AREA ONLY (E or B)
- ## Nursing 136 can be counted in one AREA ONLY (D or E)

Degree Guidelines

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 by a counselor 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.

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.

Second Degree

1. A minimum of 12 semester units at COS subsequent to completion of the first AA or AS Degree with attendance during the last semester prior to graduation, or a total of forty-five (45) units in residence if not in attendance during the last semester prior to graduation. Units earned through Credit by Examination may not be counted as units in residence.
2. Courses specifically required in the major field of the second degree.
3. Students who have not maintained continuous enrollment (see Catalog Rights listed below on this page) are required to meet all additional state and local requirements including general education, competencies, etc., as specified by the catalog in effect at the time of pursuing the second degree.
4. 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.
5. Notations of all degrees earned and majors completed will appear on your transcripts.
6. A receipt from the cashier for an additional diploma must accompany the application for a degree.

Catalog Rights

Students may graduate under the general education requirements in effect:

- ✓ At the time for first enrollment as long as continuous enrollment is maintained, or;
- ✓ Under the requirements in effect from the time continuous enrollment is established and maintained, or;
- ✓ Under the requirements in effect at the time of graduation.

Continuous enrollment is defined as enrollment in at least one semester during a calendar year on a continuing basis without a break of more than one semester excluding summer session. Any academic record symbol (A-F, CR, NC, I, IP, RD, W) shall constitute enrollment.

UC Private and Independent
CSU

Transfer Planning

Planning to Transfer?

www.assist.org

assist
Information Center

Your official source for
California articulation
and student transfer
information.

Students planning to transfer have a wide variety of options. The California State University with 22 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/ 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. Students should work toward completing both 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 our best attempt to provide 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 Transfer Center.

Summer Quarter: February 1-28
Winter Quarter: June 1-30
Spring: August 1-31
Fall: November 1-30

Eligibility for Transfer

Lower Division Transfer Requirements

If you have completed fewer than 56 transferable semester (84 quarter) units, you will qualify for admission if you have a grade point average of 2.0 (C) or better in all transferable units attempted, are in good standing at the last college or university attended, and meet the admission requirements for first-time freshmen, i.e., you have completed with a grade of "C" or better each of the courses in the comprehensive pattern of college preparatory subject requirements and have a qualifiable eligibility index. If you do not complete all the subject requirements in high school, appropriate college courses may be used to make up the missing subjects. Nonresidents must meet the eligibility index for nonresidents.

Upper Division Transfer Requirements

If you have completed at least 56 transferable semester (84 quarter) units, have a grade point average of 2.0 (C) or better in all transferable units attempted (nonresidents must have a grade point average of 2.4), and are in good standing at the last college or university attended, you may become eligible one of two ways:

1. You have completed at least 30 semester (45 quarter) units of college courses with a grade of "C" or better in each course to be selected from courses in English, arts and humanities, social science, science and mathematics at a level at least equivalent to courses that meet general education requirements.

The 30 semester (45 quarter) units must include all of the general education requirements in communication in the English language (at least 9 semesters or 12 quarter units to include written communication, oral communication, and critical thinking) and mathematics (at least 3 semester or 4 quarter units) or, if completing the Intersegmental General Education Transfer Curriculum, English communication (at least 9 semester or 12 quarter units in English composition, oral communication, and critical thinking) and the requirement in mathematics (at least 3 semester or 4 quarter units); these four courses must be completed by the Spring semester prior to transferring to a CSU campus for the Fall semester.

NOTE: Projecting completion of these courses in the Summer session is no longer acceptable by the CSU for meeting admission requirements.

2. You have completed all subject requirements required for first-time freshmen. If you did not complete all the subject requirements in high school, appropriate college courses may be used to make up the missing subjects.

For upper division transfers seeking admission to the fall term 2000 or later, the second option will not be available to establish eligibility for admission. All applicants with 56 or more transferable semester (84) quarter units will be required to have completed at least 30 semester units of courses at a level equivalent to courses that meet general education requirements. The 30 semester units must include all of the general education requirements in communication in English language (3 courses) and at least the three semester units (typically 1 course) required in mathematics.

Applicants who graduated from high school in 1987 or earlier who have not completed the subject requirements in (1) and (2) above should contact the Admissions Office at the campus to which they plan to submit an application for admission to inquire about alternative admission programs.

General Education Requirements

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

1. The **California State University General Education Certification** which will fulfill the lower division breadth/general education requirements for all CSU campuses.
2. The **Intersegmental General Education Transfer Curriculum** which will fulfill the lower division breadth/general education requirements for all CSU and most 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.

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 units minimum general education requirement.

**THE
CALIFORNIA
STATE
UNIVERSITY**

Area A Oral and Written Communication and Critical Thinking (9 units minimum)

Choose one course from each section.

A1	Oral Communication	Speech 1, 4, 7, 8
A2	Written Communication	English 1, 1H
A3	Critical Thinking	English 2, Philosophy 25, 20; Business #25*, Speech 5

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

*Courses with asterisks can be counted in ONE AREA ONLY.
#Business 25 same as AJ 25 and Political Science 25

Area B Natural Sciences and Mathematics (9 units minimum)

Choose one course from each group. One laboratory science is required. (Labs underlined).

Group 1 (B1)	Physical Science Astronomy 10; Geography 1, <u>1L</u> ; Chemistry 1, <u>2</u> , <u>20</u> , <u>21</u> ; Geology 1, 4, 12, Meteorology 1; Physical Science <u>12</u> , <u>12H</u> , <u>20</u> ; Physics 5, <u>6</u> , <u>7</u> , <u>20</u> , <u>21</u>
Group 2 (B2)	Life Science Biology 1, 2, <u>20</u> , <u>20H</u> , <u>21</u> , <u>22</u> , 25, <u>30</u> , <u>31</u> , <u>40</u> , and Anthropology 11
Group 3 (B4)	Mathematics Math 21, 45, 61, 62, 70, 75, 76, 77, 80, 81, 154; Business 20, 119

All courses in "Group 3" must be completed with a grade of "C" or better.

Area C Arts, Literature, Philosophy and Foreign Language (9 units minimum)

The nine units must include at least one course from Groups 1 and 3.

Group 1 (C1)	Arts (Art, Dance, Music, Theatre) Art 1, 2, 3, #4, #5, #5H, #6, #7, 8 Cinema Arts 31, 32, Theatre Arts 1, 2, 3, 6*, 8, 9, 60 Music 1, 4, 5, 6, 7, 10, 11, 13
Group 2 (C2)	Humanities (Philosophy, Foreign Language) Administration of Justice 123 American Sign Language 1, 2, 3, 4 Business# 185 Ethnic Studies *3 French 1, 2, 3, 4, Linguistics 10 Philosophy 1, 5, 10, 10H, 11, 11H, 12, 13, 14 Spanish 1, 2, 3, 4, 22, 23, 24
Group 3 (C2)	Literature English 4, 10, 15, 16, 17, 18, 19, 30, 31, 32, 44, 45, 45H, 46, Spanish 12, Theatre Arts 6*

Art 4, 5 same as Anthropology 4, 5; Art 6, 7, same as Consumer/Family Studies 6, 7; Business 185 same as I&T 185.

*Courses with asterisks can be counted in ONE AREA ONLY.

THE 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 units minimum general education requirement.

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 (D8) AMERICAN INSTITUTIONS

Political Science 5, 5H

GROUP 2 (D6) AMERICAN INSTITUTIONS

History 17, 18, 18H

GROUP 3

- (D1): Anthropology 10
- (D2): Economics 1,2, Agricultural Management 1
- (D3): Ethnic Studies 3*
- (D5): Geography 2,3
- (D6): Fashion 179, History 4,5,5H,19,20,21,23,31
- (D7): Psychology 5, Speech 9
- (D8): Political Science #7, Business #25*
- (D9): Child Development #39, 42, Psychology #39
- (D0): Administration of Justice 11, 114, Sociology 2

Child Development 39 same as Psychology 39; Political Science 7 same as Journalism 7; Business 25 same as AJ 25 and Political Science 25.

* Courses with asterisks can be counted in ONE AREA ONLY.

Area E Understanding and Self-Development (3 units minimum)

Psychology 1, 10, 133; Sociology 1, #26; Nutrition/Food 18; Consumer/Family Studies 80, #26, 186; English 14a, 14b; Health and Wellness 1, 7, 104; Nursing 106, 136

Sociology 26 is the same as Consumer/Family Studies 26

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 22 CSU campuses by completing Political Science 5 or 5H and either History 17, 18, or 18H as part of the General Education Certification. Some CSU campuses will not allow these courses to meet both the general education requirement and the American Institutions requirement. See a COS counselor for details.

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 most UC campuses to consider all lower division breadth/general education requirements fulfilled. All courses must be completed with a grade of "C" or better.

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM FOR TRANSFER TO CSU AND UC

Area 1

English Communication

(CSU-Select one course from each group -9 units minimum)
(UC-Select one course from Group A and one course from Group B -6 units minimum)

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, 8

Area 2

Mathematical Concepts and Quantitative Reasoning

(1 course, minimum, 3 semester units)

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

Area 3

Arts and Humanities

(Select at least 3 courses, with at least one course from Group A and one course from Group B.)

Group A Art

Art 1, 2, 3, #4, #5*; Music 4*, 5*, 6, 7, 10, 11; 13

Theatre Art 1, 6**, 8, 9

#Art 4 and 5 are the same as Anthropology 4, 5

Group B Humanities

American Sign Language 3

English 4, 10, 15, 16, 17, 18, 19, 30, 31, 32, 44, 45*, 45H*, 46

Ethnic Studies 3**

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

Linguistics 10

Philosophy 1, 5, 10*, 10H*, 11*, 11H*, 12, 13, 14

Spanish 3*, 4*, 12, 23*, 24*

French 3, 4

Theatre Arts 6**, 60

* 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.

** Courses may be counted in ONE AREA ONLY

Area 4

Social and Behavioral Sciences

(Minimum of 9 semester units)

Select at least three courses from at least two disciplines.

Agricultural Management 1; Anthropology 10

Consumer/Family Studies 26#, 80

Child Development 39#, 42

Economics 1, 2;

Ethnic Studies 3**

Geography 2, 3

Geology 4

Political Science 5+*, 5H+*, 7#, Sociology 1, 2, 26#

Psychology 1, 5, 10, 34, 39#

Speech 9

#Political Science 7 is the same as Journal 7

#Psychology 39 is the same as Child Development 39

#Consumer/Family Studies 26 is the same as Sociology 26

**Courses may be counted in ONE AREA ONLY

Area 5

Physical & 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 are underlined)

Group A Physical Sciences

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

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

Astronomy 10; Geography 1, 11; Geology 1, 12

Meteorology 1; Physical Science 12*, 12H*, 20*

Group B Biological Sciences

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

Anthropology 11

INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM FOR TRANSFER TO CSU AND UC

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 a score of 3 or higher on an AP Exam in a language other than English; or a score of 500 or higher on a College Board Achievement test in a language other than English; or a score of 5 or higher on an International Baccalaureate Higher Level Exam in a language other than English; or a satisfactory completion, with "C" grades or better, of two years of formal schooling at the sixth grade level or higher in an institution where the language of instruction is not English. If you are not able to demonstrate proficiency as indicated above, you can fulfill this requirement by completing one of the following courses:

Spanish 2,3,4,22,23,24

French 2,3,4

Sign Language Studies 1,2,3,4

CSU Graduation Requirements 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 Ideals it can NOT also be used to meet IGETC Requirements.

CSU

UC 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.*

Priority Application Filing Period

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 Career/ Transfer Center.

**UNIVERSITY
OF
CALIFORNIA**

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

UC Berkeley
Fall Semester: November 1-30
(Applications accepted for Fall only)

Eligibility Requirements for Students Transferring to UC, Fall 1998 and Later

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 transferable 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 met the Scholarship Requirement, but not the Examination Requirement, you must complete a minimum of 12 semester (18 quarter) units of transferable work and earn an overall "C" (2.0) average in all transferable college coursework completed.
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, you must:
 - a. Complete 90 quarter units or 60 semester units of *transferable* college credit with a grade point average of at least 2.4, *and*;
 - b. Complete a course pattern requirement to include:
 - two transferable college courses (3 semester or 4-5 quarter units each) in English composition, *and*;
 - one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning, *and*;
 - four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, the physical and biological sciences.

(Students who satisfy the Intersegmental General Education Transfer Curriculum prior to transferring to UC will satisfy Option 3b above of the new transfer admission requirements. For more information about the IGETC, refer to the Index of this catalog.

Nonresidents

The minimum admission requirements for nonresident transfer applicants are the same as those for residents, except that nonresidents must have a grade point average of 2.8 or higher in all transferable college coursework.

NOTE

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 exceeds 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 Requirement "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/Social Science	Two Years	For a deficiency in U.S. history/civics/American Government, a transferable college course of two or more semester units in U.S. History, civics, or American government. For a deficiency in world history/cultures/geography, a transferable college course of two or more semester units in world history, cultures, and geography.
(b) English	Four Years	For each year of deficiency, one transferable course of four quarter (three-semester) units in English composition, literature (American or English), speech, foreign literature in translation, public speaking, or oral interpretation of literature. Literature and speech courses must have substantial composition.
(c) Mathematics	Three Years	To clear the entire deficiency, complete one of the following: a transferable mathematics course that employs the topics of intermediate algebra or; a transferable statistics course offered by either the mathematics or statistics department that has intermediate algebra as a prerequisite. (Must earn grade of "C" or better in each course.)
(d) Laboratory Science	Two Years	Any transferable course in a natural (physical or biological) science with at least 30 hours of laboratory (not "demonstration").
(e) Language Other than English	Two Years	To clear entire deficiency, any transferable 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	Two Years	For each year of deficiency: one transferable course beyond those listed above as clearing any of the "a-e" requirements; or a transferable course having as prerequisite the equivalent of two high school years in a second language; or transferable course equivalent to those that clear the "c", "d", or "e" requirement; or a transferable course of 4 or more quarter units in history, social science, or visual and performing arts. (Must earn grade of "C" or better in course.)

* For students transferring to UC in Fall 1998 and later ALL college courses used to clear Subject Requirement deficiencies must be transferable.

General Education Requirements

**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 most UC and all CSU campuses.
2. The specific lower division breadth/general education requirements of the campus they intend to transfer to.

Refer to the Index of this catalog to find the Intersegmental General Education Transfer Curriculum. 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:

<p>Accounting 1, 2</p> <p>Administration of Justice 11, 13, 14*, 25*</p> <p>* 14 and 25 combined: maximum credit allowed: one course NOTE: AJ 25 same as Poli Sci 25 and Bus 25</p> <p>Agriculture 3, 4</p> <p>Agriculture Management 1</p> <p>American Sign Language 1, 2, 3, 4</p> <p>Animal Science 1, 2a-b, 22</p> <p>Anthropology 4, 10, 11</p> <p>NOTE: ANTHRO 4, 5 same as Art 4, 5.</p>	<p>Architecture 10, 11, 20, 21, 40</p> <p>Art 1, 2, 3, 4, 5, 6, 7, 8, 9, 10a-d, 11a-d, 12a-b, 13a-d, 15, 16, 17a-b, 18a-d, 23a-d*, 25a-d#</p> <p>*Maximum credit, 6 units #Maximum credit, 6 units</p> <p>NOTE: Art 4 and 5 same as Anthro 4, and 5; Art 6 & 7, same as CFS 6 & 7.</p> <p>Astronomy 10</p> <p>Biology 1, 2, 20+, 20H+, 21, 22, 25, 30, 31, 40</p> <p>+No credit for Biol 20/20H if taken after Biol 1: Biol 20 and Biol 20H combined: maximum credit allowed, one course</p>	<p>Business 18, 20*, 25, 82</p> <p>* Bus 20 and Math 21 combined; maximum credit allowed, one course NOTE: Bus 25 same as AJ 25 and Poli Sci 25.</p> <p>Chemistry 1*, 2*, 5, 12, +, 13+, 20*, 21+</p> <p>*Chem 1, 2, & 20 combined: maximum credit allowed, 2 courses +12, 13 and 21 combined: maximum credit allowed, 2 courses</p> <p>Child Development 39*, 42*</p> <p>NOTE: Child Development 39 same as Psychology 39</p> <p>Consumer/Family Studies 6, 7, 26, 80</p> <p>NOTE: Consumer/Family Studies 6 & 7 same as Art 6 & 7; Consumer/Family Studies 26 same as Sociology 26</p>
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**UNIVERSITY
OF
CALIFORNIA**

Transfer Course List

Cinema Arts
31, 32

Computer
5, 6, 7

Dance
6a-d, 8a-d, 10a-d, 12a-d, 13a-b, 16a-b, 41a-d
NOTE: Dance 41a-d same as Music 97a-d and Thtr Art 20a-d.

Economics
1, 2

Engineering
1, 2, 3, 4, 7

English
1*, 1H*, 2, 4, 10, 14a-b, 15, 16, 17, 18, 19, 30, 31, 32, 44, 45+, 45H+, 46
+45 and 45H combined: maximum credit, one course
*1 and 1H combined: maximum credit allowed, one course

Ethnic Studies
3

Fashion
12a-b, 17a-b, 76

French
1, 2, 3, 4

Geography
1, 1L, 2, 3

Geology
1, 4, 12

History
4, 5+, 5H+, 17, 18*, 18H*, 19, 20, 21, 23, 31
*18 and 18H combined: maximum credit allowed, one course
+5 and 5H combined; maximum credit allowed, one course

Health and Wellness
1*, 3, 7*, 60*
*1, 7, and 60: maximum credit allowed, one course
NOTE: Health and Wellness 60 same as Sports Med 60

Independent Study
(See COS Counselor)

Intercollegiate Athletics
1a through 30d*
See Physical Education () for limitation

Journalism
1, 7

Linguistics
10

Mathematics
15, 16, 18, 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, one series
#70 maximum credit allowed, 4 units

Meteorology
1

Music
1++, 4++, 5++ 6, 7, 8a-b, 10, 11, 13, 20, 21, 22a-d, 23a-d, 30a-d, 31a-d, 32a-d, 34a-d, 36a-d, 40a-d, 50a-d, 52a-d, 53a-d, 54a-d, 55a-b, 56a-b, 57a-d, 60a-d, 61a-d, 62a-d, 63a-d, 65a-d, 72a-d, 74a-d, 76a-d+, 90a-d, 91a-d, 92a-d, 94a-d, 97a-d
+Limit with (*) P.E. courses: maximum credit allowed, 4 units
++1, 4, & 5 combined; no credit for 1 if taken after 4 or 5
NOTE: Music 75a-d same as PE 41a-d.

Nutrition
18

Ornamental Horticulture
2*, 3*, 7
*2 and 3 combined; maximum credit allowed, one course

Philosophy
1, 5, 10*, 10H*, 11+, 11H+, 12, 13, 14, 20, 25
*10 and 10H combined: maximum credit allowed, one course
+11 and 11H combined: maximum credit allowed, one course

Photography
1, 2a-d

Physical Education
1a through 16d*, 17+, 18a through 26d*, 27, 28, 30a through 35b*, 36, 37+, 52a through 68d*, 70a through 72d*
*any or all of these courses combined with Music 75a-d or 76a-d; maximum credit allowed, 4 units
+Any or all of these courses combined: maximum credit allowed, 8 units

Physical Science
12*, 12H*, 20*
*12, 12H, and 20 combined: maximum credit allowed, one course
No credit for 12, 12H, 20 if taken after a college course in Astronomy, Chemistry, Geology or Physics.

Physics
5*, 6*, 7*, 20*, 21*
*20, 21 combined with 5, 6, and 7: maximum credit: one series

Plant Science
1, 12

Political Science
5*, 5H*, 7, 25+
*5 and 5H combined: maximum credit allowed, one course
+25 and AJ 14 combined; maximum credit, one course
NOTE: Political Science 7 same as Journal 7; Poli Sci 25 same as AJ 25 and Bus 25.

Transfer Course List

UNIVERSITY OF CALIFORNIA

<p>Psychology 1, 5, 10, 34, 39</p> <p>Sociology 1, 2, 26*</p> <p>*Note: Sociology 26 same as Consumer/Family Studies 26</p>	<p>Spanish 1, 2, 3, 4, 12, 22*, 23*, 24*</p> <p>*22 is equivalent to 2: maximum credit allowed, one course; 23 is equivalent to 3: maximum credit allowed, one course; 24 is equivalent to 4: maximum credit allowed, one course</p> <p>Speech Arts 1, 3, 4, 5, 7, 8, 9</p>	<p>Sports Medicine 40*, 60+, 70*, 71*, 72*, 73*</p> <p>*40, 70, 71, 72, 73 combined; maximum credit allowed, one course +60 and Health & Wellness 1 & 7 combined; maximum credit allowed, one course</p> <p>NOTE: Sports Med 60 same as HW 60</p> <p>Theater Arts 1, 2, 3, 4, 5, 6, 7, 8, 9, 11a-d, 12a-b, 13a-b, 14a-b, 15a-b, 16a-b, 17a-b, 18a-b, 19a-d, 20a-d, 21a-d, 22a-d, 30a-b, 40a-b, 60</p>
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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

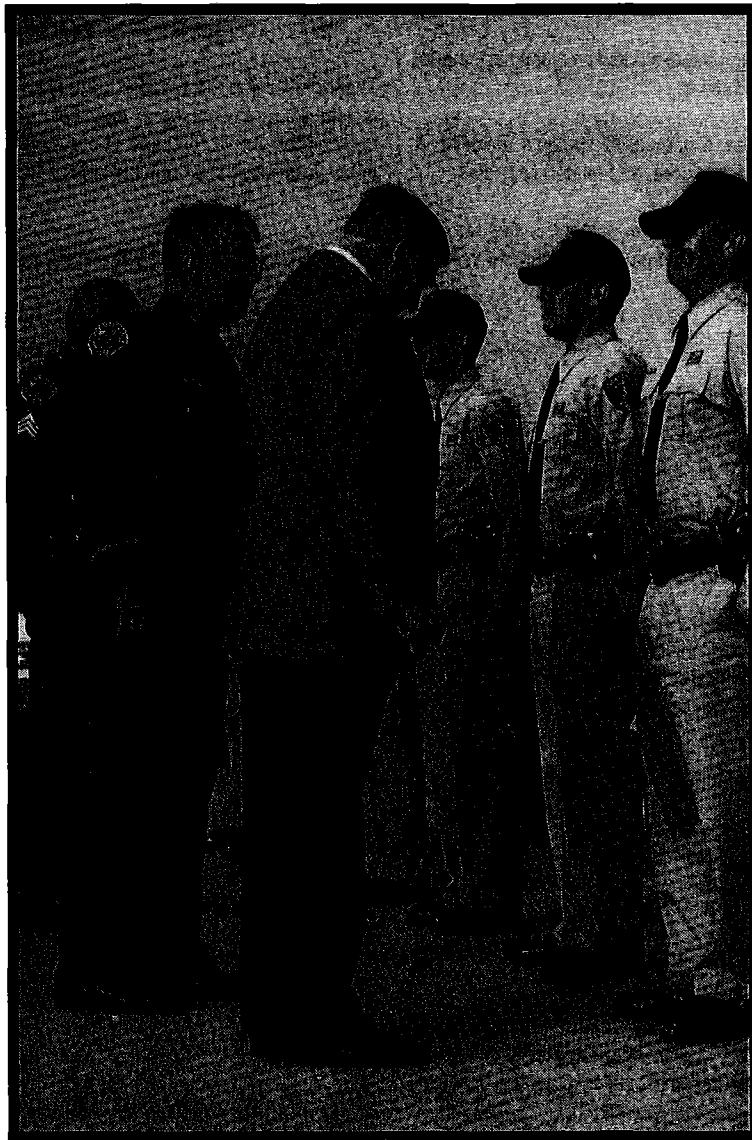
The California Articulation Number (CAN) System identifies some of the transferable, lower division preparatory courses commonly required by four year colleges and universities. Lists of courses for campuses participating in the CAN system are available in the Counseling Office and the Transfer Center. 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 below, and parenthetically after each course description in this catalog.

<p>CAN AG 4 CAN AG 6 CAN AG 8 CAN AG 12 CAN AG 14 CAN AG 20 CAN AG 22 CAN AG 24 CAN AG 26 CAN AG 28 CAN AJ 2 CAN AJ 4</p>	<p>AG MECH 101 AN SCI 1 PLNT SCI 1 AN SCI 103 AG 4 AN SCI 111 AN SCI 112 AN SCI 110 AN SCI 22 DAIRY 101 AJ 11 AJ 14</p>	<p>Basic Farm Mechanics Introduction to Animal Science Introduction to Crop Science Animal Nutrition Soils Beef Production and Management Sheep Production & Management Swine Production & Management Horse Husbandry Elements of Dairying Introduction to Criminal Justice Introduction to Criminal Law I</p>	<p>CAN AJ 6 CAN AJ 8 CAN ANTH 2 CAN ANTH 4 CAN ART 2 CAN ART 4 CAN ART 6 CAN ART 8 CAN ART 12 CAN ART 14 CAN ART 16</p>	<p>AJ 112 AJ 118 ANTHRO 11 ANTHRO 10 ART 2 ART 3 ART 17A + 17B ART 8 ART 11A + 11B ART 6 ART 7</p>	<p>Criminal Evidence Criminal Investigations Physical Anthropology Cultural Anthropology Art History Art History Basic Ceramics Drawing Fundamentals Sculpture Color and Design Color and Design</p>
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Graduation and Transfer

California Articulation Number System

CAN ART 18	PHOTO 1	Beginning Photography	CAN H EC 14	CHLD DEV 39 or	
CAN ART 20	ART 15+16	Printmaking + Advanced Printmaking		PSYCH 39	Child Development
			CAN HIST 2	HIST 4	The History of Western Civilization to 1648
CAN BIOL 4	BIOLOGY 1	Principles of Biology	CAN HIST 4	HIST 5	The History of Western Civilization since 1648
CAN BIOL 6	BIOLOGY 2	General Biology	CAN HIST 8	HIST 17	The People of the United States
CAN BIOL 10	BIOLOGY 30	Human Anatomy	CAN HIST 10	HIST 18	The People of the United States
CAN BIOL 12	BIOLOGY 31	Human Physiology	CAN JOUR 2	JOURNAL 1	Beginning Newswriting
CAN BIOL 14	BIOLOGY 40	General Microbiology	CAN JOUR 4	JOURNAL 7 or	
CAN BUS 2	ACCT 1	Principles of Accounting		POLI SCI 7	Mass Communications; Introduction
CAN BUS 4	ACCT 2	Principles of Accounting	CAN MATH 2	MATH 45	Modern Applications of Mathematics
CAN BUS 6	COMPUTER 5	Introduction to Computer Information Systems			
			CAN MATH 8	MATH 154	Trigonometry
CAN BUS 12	BUS 18	Business Law	CAN MATH 16	MATH 70	Precalculus
CAN CHEM 2	CHEM 1	General Chemistry	CAN MATH 18	MATH 75	Calculus with Analytic Geometry
CAN CHEM 4	CHEM 2	General Chemistry	CAN MATH 20	MATH 76	Calculus with Analytic Geometry
CAN CHEM 6	CHEM 20	General Chemistry	CAN MATH 22	MATH 77	Calculus with Analytic Geometry
CAN CHEM 8	CHEM 21	General Organic and Biological Chemistry	CAN MATH 24	MATH 81	Differential Equations
			CAN MATH 26	MATH 80	Linear Algebra
CAN CHEM 12	CHEM 5	Analytical Chemistry	CAN MATH 30	MATH 61	Survey of Calculus 1
CAN CSCI 4	MATH 15	Computer Science I	CAN MATH 32	MATH 62	Survey of Calculus 2
CAN CSCI 6	COMPUTER 6	Basic Programming	CAN MUS 2	MUSIC 4	Comprehensive Musicianship I
CAN CSCI 8	COMPUTER 7	Cobol Programming	CAN MUS 4	MUSIC 5	Comprehensive Musicianship II
CAN DRAM 8	THTR ART 2	Fundamentals of Acting I	CAN PHIL 2	PHILOS 1	Introduction to Philosophy
CAN DRAM 12	THTR ART 13 A	Beginning Stagecraft	CAN PHIL 4	PHILOS 5	Ethics
CAN DRAM 18	THTR ART 1	Introduction to the Theatre	CAN PHIL 6	PHILOS 20	Introductory Logic
CAN ECON 2	ECON 1	Principles of Economics I	CAN PHIL 8	PHILOS 10	Development of Western Philosophy
CAN ECON 4	ECON 2	Principles of Economics II			
CAN ENGL 2	ENGLISH 1	College Reading and Composition	CAN PHIL 10	PHILOS 11	Development of Western Philosophy
CAN ENGL 4	ENGLISH 4	College Composition and Literature			
CAN ENGL 6	ENGLISH 14A or 14B	Creative Writing	CAN PHYS 2	PHYSICS 20	General Physics
			CAN PHYS 4	PHYSICS 21	General Physics
CAN ENGL 8	ENGLISH 15	Survey of British Literature 1	CAN PHYS 8	PHYSICS 5	Physics for Scientists and Engineers
CAN ENGL 10	ENGLISH 16	Survey of British Literature 2			
CAN ENGL 14	ENGLISH 30	U.S. Literature 1	CAN PHYS		
CAN ENGL 16	ENGLISH 31	U.S. Literature 2	SEQ B	PHYSICS 5+6+7	Physics for Scientists and Engineers
CAN ENGR 2	ENGR 1	Graphics			
CAN ENGR 4	ENGR 3	Materials Science	CAN PSY 2	PSYCH 1	General Psychology
CAN ENGR 6	ENGR 4	Alternating Current Circuits	CAN SOC 2	SOC 1	Introduction to Sociology
CAN ENGR 8	ENGR 2	Statics	CAN SOC 4	SOC 2	The Sociology of Social Problems
CAN ENGR 10	ENGR 7	Surveying	CAN SPAN 2	SPANISH 1	Elementary Spanish 1
CAN FREN 2	FRENCH 1	Elementary French 1	CAN SPAN 4	SPANISH 2	Elementary Spanish 2
CAN FREN 4	FRENCH 2	Elementary French 2	CAN SPAN 8	SPANISH 3	Intermediate Spanish
CAN FREN 8	FRENCH 3	Intermediate French	CAN SPAN 10	SPANISH 4	Advanced Spanish
CAN FREN 10	FRENCH 4	Advanced French	CAN SPCH 4	SPEECH 1	Fundamentals of Public Speaking
CAN GEOG 2	GEOG 1	Physical Geography	CAN SPCH 6	SPEECH 5	Argumentation and Debate
CAN GEOG 4	GEOG 3	Cultural Geography	CAN SPCH 8	SPEECH 4	Interpersonal Communications
CAN GEOL 2	GEOL 1	Physical Geology	CAN SPCH 10	SPEECH 8	Group Communications
CAN GOVT 2	POLI SCI 5	Federal, State and Local Government	CAN STAT 2	MATH 21	Introduction to Statistics
CAN H EC 2	NUTR/FOOD 18	Nutrition			
CAN H EC 12	CFS 26 or SOC 26	Marriage and Family Life			



"It's what you learn after you know it all that counts."

John Wooden

Major and Certificate Requirements

Degrees

Students at College of the Sequoias who complete the appropriate requirements may earn either an Associate of Arts or an Associate of Science degree. Both degrees represent significant levels of achievement and may be used by students who plan to start their career immediately after graduating or, with proper planning and course selection, by those who plan to transfer to a four year university.

Associate of Arts (AA) degree is granted to students majoring in the arts, humanities, social sciences, and similar areas.

Associate of Science (AS) degree is granted to students majoring in agriculture, engineering, technology, the sciences, and related programs.

All majors are organized alphabetically on the following pages for your convenience. Specific majors can be found listed alphabetically in the index of this catalog.

Vocational Certificate Program

College of the Sequoias Vocational Certificates are awarded to students who have satisfactorily completed a high level of technical training and meet or exceed the skills and knowledge required for employment in business or industry.

Certificates are not equal to an AS or AA degree and can usually be completed in a much shorter period of time. Certificates verify to employers that the recipient has achieved a high level of technical competency. Certificate units can also be applied toward an associate degree concurrently or at a later date.

Certificate Policy

The College of the Sequoias will issue certificates to those students who satisfactorily complete the requirements stated in the college catalog with a "C" or better grade in each required class.

Students can petition for a waiver and/or the certificate requirements with training and/or professional experience from another institution or agency. Students must complete at least 50% of the units required for the certificate in classes offered through COS. The petition should be initiated through the division chair or department faculty in which the certificate training is available. Verification of any substitution for a required class must be attached to the certificate application.

All certificates issued by the College of the Sequoias District must be approved by the Dean of Academic Services - Vocational.

How to Apply for a Certificate

Certificate applications are available from the Dean of Academic Services-Vocational, or the Division chair of the division in which the coursework is provided.

The students must complete the application and attach all necessary documentation and return the application to the faculty and division chair for signatures. When signed, the application should be forwarded to the Dean of Academic Services-Vocational for approval.

Types of Certificates

Career Certificates

- **Type A** — Requires from 18-29 units
- **Type B** — Requires from 30 to 60 units

These certificates are awarded to students who have achieved the highest level of technical competency in their field and have satisfactorily completed a rigorous sequence of courses. The requirements for these certificates are based upon close articulation with business and industry.

Skill Certificates (17 or fewer units)

Skill certificates also prepare students for employment, but have fewer unit requirements than the Career Certificates. They are highly specialized and are available in a wide variety of career and technical areas. These certificates are frequently used to upgrade or update an individual's skills for promotion or increased salary.

Major and Certificate Listings

Division Listing

Beginning on the adjacent page, we have listed all majors and certificates available in each division of study at College of the Sequoias.

Alphabetical Listing

Following the "division" listing of all certificates and majors, each major and certificate is listed alphabetically.

No person shall, on the grounds of sex, race, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination in any program or service at College of the Sequoias.

Major and Certificate Requirements

Alphabetical Listing of All Certificates and Majors by Division

Name of Major/Certificate	Page	Certificate Units	Units in Major	Associate Degree AA/AS
Agriculture				
Agricultural Business Management	81	30	30	AS
Agricultural Pest Management	82	30	----	----
Agricultural Power Equipment Technology	83	17	----	----
Agricultural Science	84	30	30	AS
Agricultural Technology	85	30	30	AS
Animal Science	86	30	30	AS
Dairy Science	107	30	30	AS
Equine Science	117	30	----	----
Floral Technology	124	30	----	----
Landscape Design	137	30	----	----
Landscape Management	138	30	30	AS
Nursery Management	150	30	30	AS
Ornamental Horticultural Technology	151	30	30	AS
Plant Science and Industry	158	30	30	AS
Veterinary Technician	169	17	----	----
Business				
Accounting	77	31	31	AS
Administrative Assistant	80	30	30	60
Business (General)	92	30	----	----
Business Management	93	----	30	AS
Computer Applications	99	30	30	AS
Computer/Information Systems	100	30	30	AS
Computer Web Technician	101	6	---	---
Computerized Office Procedures	102	30	30	AS
Family Support Officer	118	14	----	----
Law Office Clerk/Receptionist	139	14	----	----
Legal Documents Clerk	140	17	----	----
Marketing	143	30	----	----
Paralegal	153	37	30	AS
Real Estate	161	29	----	----
Word Processing	172	30	----	----
CFS				
Child Development	96	24	24	AS
Child Development, Early Childhood Education, Option II	97	26	----	----
Consumer/Family Studies	105	----	21	AS
Fashion Design	119	24	24	AS
Fashion Retailing	120	22	22	AS
Food Service 1: Basic Certificate	125	11	----	----
Food Service 2: Dietetic Service Supervisor	126	22	----	----
Food Service 3: Food Service Management	127	28	----	----
Food Service Management	127	----	28	AS

Major and Certificate Requirements

Alphabetical Listing of All Certificates and Majors by Division

Name of Major/Certificate	Page	Certificate Units	Units in Major	Associate Degree
				AA/AS
Fine Arts				
Art	88	---	23	AA
Commercial Art	98	33	----	----
Dramatic Arts: Acting Emphasis	110	----	28	AA
Dramatic Arts: Technical Emphasis	111	----	28	AA
Music: Instrumental Emphasis	146	----	31	AA
Music: Keyboard Emphasis	147	----	30	AA
Music: Vocal Emphasis	149	----	31	AA
Music: theory/Composition Emphasis	148	----	30	AA
Speech Communication	168	----	30	AA
<i>Sequoias Theatre Conservatory (Letter of Completion)</i> <i>Theatre Arts: Acting Emphasis</i>	163	48	<i>(Not an approved major or certificate)</i>	
<i>Sequoias Theatre Conservatory (Letter of Completion)</i> <i>Theatre Arts: Technician Emphasis</i>	164	48	<i>(Not an approved major or certificate)</i>	
Industry and Technology				
Architecture	87	30	30	AS
Automotive Technology	90	33	38	As
Construction Inspection	103	21	----	----
Construction Technology	104	38	38	AS
Drafting Technology	109	30	40	AS
Electronics Technology	112	30	30	AS
Environmental Control Technology	116	29	29	AS
Graphic Design	130	28	40	AS
Industrial Maintenance Technology	135	27-31	27-31	AS
Plumbing	159	9	----	----
Waste Water Treatment	170	6	----	----
Welding	171	30	30	AS
Science				
Biology	91	----	25	AS
Chemistry	95	----	30	AS
Physics	157	----	33	AS
Physical Science	156	----	30	AS
Science and Math	145	----	21	AS
Language Arts and Communications				
English	115	----	18	AA
Foreign Language Studies	128	----	21	AA
French	129	----	18	AA
Journalism	136	----	18	AA
Sign Language	165	----	18	AS
Spanish*	167	----	21	AA
Library				
Library Technician	142	17	----	----

Major and Certificate Requirements

Alphabetical Listing of All Certificates and Majors by Division

Name of Major/Certificate	Page	Certificate Units	Units in Major	Associate Degree AA/AS
Math and Engineering				
Engineering	114	----	29	AS
Mathematics	144	----	26	AS
Mathematics-Science	145			
Nursing				
Certified Nursing Assistant	94	6	----	----
Emergency Medical Technician B	113	4	----	----
Home Health Aide	132	2	----	----
Registered Nursing	162	----	87	AS
Physical Education				
Athletic Trainer/Sports Medicine	89	----	36	AS
Dance	108	----	26	AA
Health Education	131	----	30	AA
Physical Education	155	---	30	AA
Social Sciences				
Administration of Justice: corrections Emphasis	78	----	27	AS
Administration of Justice: Enforcement Emphasis	79	----	27	AS
Human Services (Social Work)	133	36	36	AS
Social Sciences	166	----	30	AA
Specialized Training				
Cosmetology	106	24-38	38	AS
Fire Academy	121	9	---	---
Fire Technology	122	30	28	AS
Public Safety Training	160	24	----	----
P.O.S.T. Basic Police Academy	152	12	----	----

Major and Certificate Requirements

Alphabetical Listing of All Certificates and Majors

Name of Major/Certificate	Page	Certificate Units	Units in Major	Associate Degree
				AA/AS
A				
Accounting	77	31	31	AS
Administration of Justice: Corrections Emphasis	78	...	27	AS
Administration of Justice: Enforcement Emphasis	79	...	27	AS
Administrative Assistant	80	30	30	AS
Agricultural Business Management	81	30	30	AS
Agricultural Pest Management	82	30	....	....
Agricultural Power Equipment Technology	83	17	....	....
Agricultural Science	84	30	30	AS
Agricultural Technology	85	30	30	AS
Animal Science	86	30	30	AS
Architecture	87	30	30	AS
Art	88	....	23	AA
Athletic Trainer/Sports Medicine	89	....	36	AS
Automotive Technology	90	33	38	As
B				
Biology	91	....	25	AS
Business (General)	92	30	....	....
Business Management	93	....	30	AS
C				
Certified Nursing Assistant	94	6	....	....
Chemistry	95	....	30	AS
Child Development	96	24	24	AS
Child Development, Early Childhood Education, Option II	97	26	....	....
Commercial Art	98	33	....	....
Computer Applications	99	30	30	AS
Computer/Information Systems	100	30	30	AS
Computer Web Technician	101	6	---	---
Computerized Office Procedures	102	30	30	AS
Construction Inspection	103	21	....	....
Construction Technology	104	38	38	AS
Consumer/Family Studies	105	....	21	AS
Cosmetology	106	24-38	38	AS
Dairy Science	107	30	30	AS
D				
Dance	108	....	26	AA
Drafting Technology	109	30	40	AS
Dramatic Arts: Acting Emphasis	110	....	28	AA
Dramatic Arts: Technical Emphasis	111	....	28	AA
E				
Electronics Technology	112	30	30	AS
Emergency Medical Technician B	113	4	....	....
Engineering	114	....	29	AS
English	115	....	18	AA

Major and Certificate Requirements

Alphabetical Listing of All Certificates and Majors

Name of Major/Certificate	Page	Certificate Units	Units in Major	Associate Degree AA/AS
E				
Environmental Control Technology	116	29	29	AS
Equine Science	117	30	....	....
F				
Family Support Officer*	118	14	....	....
Fashion Design	119	24	24	AS
Fashion Retailing	120	22	22	AS
Fire Academy	121	9	---	---
Fire Technology	122	30	28	AS
Floral Technology	124	30	....	....
Food Service 1: Basic Certificate	125	11	....	....
Food Service 2: Dietetic Service Supervisor	126	22	....	....
Food Service 3: Food Service Management	127	28	....	....
Food Service Management	127	....	28	AS
Foreign Language Studies	128	....	21	AA
French	129	....	18	AA
G				
Graphic Design	130	28	40	AS
H				
Health Education	131	....	30	AA
Home Health Aide	132	2	....	....
Human Services (Social Work)	133	36	36	AS
Humanities	134	---	30	AA
I				
Industrial Maintenance Technology	135	27-31	27-31	AS
J				
Journalism	136	....	18	AA
L				
Landscape Design	137	30	....	....
Landscape Management	138	30	30	AS
Law Office Clerk/Receptionist	139	14	....	....
Legal Documents Clerk	140	17	....	....
Liberal Arts	141	---	20	AA
Library Technician	142	17	....	....
M				
Marketing	143	30	....	....
Mathematics	144	....	26	AS
Mathematics-Science	145	---	21	AS
Music: Instrumental Emphasis	146	....	31	AA
Music: Keyboard Emphasis	147	....	30	AA

Major and Certificate Requirements

Alphabetical Listing of All Certificates and Majors

Name of Major/Certificate	Page	Certificate Units	Units in Major	Associate Degree
				AA/AS
M				
Music: Theory/Composition Emphasis	148	....	30	AA
Music: Vocal Emphasis	149	....	31	AA
N				
Nursery Management	150	30	30	AS
O				
Ornamental Horticultural Technology	151	30	30	AS
P				
P.O.S.T. Basic Police Academy	152	12	....	....
Paralegal	153	37	30	AS
Physical Education	155	....	30	AA
Physical Science	156	....	30	AS
Physics	157	....	33	AS
Plant Science and Industry	158	30	30	AS
Plumbing	159	9	....	....
Public Safety Training	160	24	---	---
R				
Real Estate	161	29	....	....
Registered Nursing	162	....	87	AS
S				
Science-Math	145	....	21	AS
<i>Sequoias Theatre Conservatory</i>				
<i>Theatre Arts: Acting Emphasis (Letter of Completion)</i>	163	48	<i>(Not an approved major or certificate.)</i>	
<i>Sequoias Theatre Conservatory</i>				
<i>Theatre Arts: Technician Emphasis (Letter of Completion)</i>	164	48	<i>(Not an approved major or certificate.)</i>	
Sign Language	165	....	18	AS
Social Sciences	166	....	30	AA
Spanish	167	....	21	AA
Speech Communication	168	....	30	AA
V				
Veterinary Technician	169	17	....	....
W				
Waste Water Treatment	170	6	....	....
Welding	171	30	30	AS
Word Processing	172	30	....	....

Major and Certificate Requirements

Accounting

Associate Degree
 Certificate

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 31 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Accounting Program is designed to prepare students to enter the workforce to do bookkeeping/accounting. Without accounting, sound economic decisions could not be made, business planning and decision making would be difficult and companies could not operate. Accountants gather, record, report and interpret financial information. Career opportunities are available in government, business and industry, nonprofit organizations, and private accounting firms.

Course Numbers	Core Courses	Units
ACCT 1 or ACCT 101 ACCT 202	Principles of Accounting (4) Essentials of Accounting (5) and General Vocational Accounting (5)	4-10
ACCT 210 ACCT 282 BUS 82 BUS 185	Computer Accounting Individual Income Tax Introduction to Business Ethics in Business and Industry	3 5 3 3
BUS 295 or BUS 119 or BUS 20*	Business Mathematics Quantitative Methods (3) Business Statistics (3)	3
COMPUTER 5, or COMPUTER 130	Introduction to Computer Information Systems (4) Introduction to Personal Computers (4)	4
COMPUTER 138 or COMPUTER 223a-d COMPUTER 224a-d	Spreadsheet Design for Business (3) Beginning Excel (1.5) and Advanced Excel (1.5)	3
Minimum Core Course Units:		28-34

Course Number	Support Courses	Units
Select 0-3 additional units from this list to complete the total units required.		
ACCT 2 BUS 174 BUS 184 BUS 268	Principles of Accounting Marketing Principles Business Communications Electronic Calculating	4 3 3 2
Minimum Support Course Units:		0-3
Total Minimum Units Required:		31

Major and Certificate Requirements

- Associate Degree
 Certificate

Administration of Justice: Corrections Emphasis

A.S. Degree: 27 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
Certificate: Certificate is not available.
Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

The Administration of Justice program offers courses integrating theoretical and applied materials. Students may specialize in either Corrections or Law Enforcement. The curriculum is designed to prepare students for beginning paraprofessional or professional employment in criminal justice.

The Administration of Justice major offers career opportunities in many diversified local, state, federal, and private criminal justice agencies. On a local level, employment opportunities for students with a Corrections emphasis include county probation departments, halfway houses, group homes, crisis centers, juvenile halls, and victim services agencies. At the state level, employment opportunities exist with the Department of Corrections and California Youth Authority. The federal level offers employment with federal probation and juvenile institutions.

Course Numbers	Core	Units
AJ 11	Introduction to Criminal Justice	3
AJ 111	Writing for Criminal Justice	3
AJ 114	Juvenile Delinquency	3
AJ 115	Criminal Law II	3
AJ 116	Probation and Parole	3
AJ 117	Correction, Interviewing and Counseling	3
AJ 121	Introduction to Corrections	3
Total Minimum Units Required:		18

Course Numbers	Support Courses	Units
Select 9 additional units from this list for further study.		
AJ 13	Community Relations	3
AJ 14	Introduction to Criminal Law I	3
AJ 25	Constitutional Law	3
AJ 113	Juvenile Laws and Procedures	3
AJ 115	Criminal Law II	3
AJ 120	Women in the Criminal Justice Field	3
AJ 123	Criminal Justice Ethics	3
AJ 135	Criminal Justice Ethics	3
AJ 160	Criminal Law Terms in Spanish	3
AJ 193-196	Work Experience	1-4
BUSINESS 130	Introduction to Personal Computer Operations	3
Minimum Support Course Units		9
Total Minimum Units Required		27

Major and Certificate Requirements

Administration of Justice: Enforcement Emphasis

Associate Degree
Certificate

A.S. Degree: 27 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
(See page 54.)

Certificate: Certificate is not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

The Administration of Justice program offers courses integrating theoretical and applied materials. Students may specialize in either Corrections or Law Enforcement. The curriculum is designed to prepare students for beginning paraprofessional or professional employment in Criminal Justice.

The Administration of Justice major offers career opportunities in many diversified local, state, federal, and private criminal justice agencies.

For Administration of Justice students with a Law Enforcement emphasis, career opportunities on the local level include work in municipal police departments, county sheriffs offices, and welfare fraud. At the state level, career opportunities include state police, highway patrol, Alcohol Department, Motor Vehicles Department, Department of Justice, Fish and Game, and Forestry. Federal opportunities include the border patrol, FBI, and Secret Service.

Course Numbers	Core Courses	Units
AJ 11	Introduction to Criminal Justice	3
AJ 13	Community Relations	3
AJ 14	Introduction to Criminal Law 1	3
AJ 25	Constitutional Law Interpretation	3
AJ 111	Writing for Criminal Justice	3
AJ 112	Criminal Evidence	3
AJ 115	Criminal Law II	3
Total Minimum Units Required:		18

Course Numbers	Support Courses	Units
Select 9 additional units from this list for further study.		
AJ 25	Constitutional Law	3
AJ 110	Police Patrol Procedures	3
AJ 113	Juvenile Laws and Procedures	3
AJ 114	Juvenile Delinquency	3
AJ 118	Criminal Investigation	3
AJ 119	Criminal Identification	3
AJ 120	Women in the Criminal Justice Field	3
AJ 122	Principles and Procedures for the Criminal Justice System	3
AJ 123	Criminal Justice Ethics	3
AJ 135	Criminal Justice Ethics	3
AJ 160	Criminal Law Terms in Spanish	3
AJ 193-196	Work Experience	1-4
BUSINESS 130	Introduction to Personal computer Operation	3
Minimum Support Course Units		9
Total Minimum Units Required		27

Major and Certificate Requirements

- Associate Degree
- Certificate

Administrative Assistant

A.S. Degree: Certificate plus General Education and graduation requirements for a total of 60 units. (See page 54.)
Certificate: The 30-unit program below with a minimum of a "C" grade in all required courses.
Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Administrative Assistant Program incorporates the clerical skills of filing and typing with the managerial skills of communication, time management, and administrative decision making. The strength of any well-run office is directly related to its office managers, administrative assistants, and secretaries. The administrative assistant of tomorrow must be prepared to meet the technological needs of business, using the computer to process information. The administrative assistant position often acts as a springboard for advancement within the company. Related fields include legal secretary, medical secretary, and office manager.

Course Numbers	Core Courses	Units
ACCT 1	Principles of Accounting (4)	4-5
or ACCT 101	Essentials of Accounting (5)	
BUS 82	Introduction to Business	3
BUS 161	Intermediate Keyboarding	3
BUS 184	Business Communications	3
BUS 188	Human Relations in Business	3
BUS 268	Electronic Calculating	2
BUS 293	Business English	3
BUS 295	Business Mathematics (3)	3
or BUS 119	Quantitative Methods (3)	
or BUS 20	Statistics (3)	
COMPUTER 5	Introduction to Computer Information Systems (4)	4
or COMPUTER 130	Introduction to Personal Computers (4)	
Minimum Core Course Units:		28-29

Course Numbers	Support Courses	Units
Select 1-2 additional units from this list to complete the total units required.		
BUS 18	Business Law	4
BUS 170	Introduction to Sales	3
BUS 174	Marketing Principles	3
BUS 185	Ethics in Business and Industry	3
COMPUTER 136	Word Processing Using WordPerfect	3
COMPUTER 220	Essential Computer Concepts	1
COMPUTER 221a-d	Beginning Word	1.5
COMPUTER 222a-d	Advanced Word	1.5
COMPUTER 227	Presentation Software for Business	1.5
COMPUTER 229	Web Page Design & Development	3
Minimum Support Course Units:		1-2
Total Minimum Units Required:		30

Major and Certificate Requirements

Agricultural Business Management

Associate Degree
 Certificate

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
 ((See page 54.)

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Agriculture Business Management Program is designed to prepare students who seek a certificate or degree in the Agriculture Business Management field. The coursework provides the fundamentals for entry-level job skills in Agriculture Management as well as providing degree applicable units for the Associate of Science Agricultural major degree. Some of the courses also meet transfer requirements. The COS Agriculture Business Management Certificate/Degree major provides a strong curriculum foundation for Agricultural business students.

Course Numbers	Core Courses	Units
AG MGT 1	Agriculture Economics	3
AG MGT 102	Agriculture Sales	3
AG MGT 103	Introduction To Agricultural Management	3
AG MGT 104	Agriculture Accounting	3
AG MGT 108a-b	Introduction to Agriculture Computer Applications(first semester)	3
WRK EXP 193	Occupational Cooperative Education/Internship	4
Minimum Core Course Units:		19

Course Numbers	Support Courses	Units
Select 11 additional units from this list to complete the total units required.		
AG 4	Soils	3
AG 194	Work Experience	1-4
AG 201	Agricultural Mathematics	3
AG 200	Orientation To Agriculture	1
AG MGT 108a-b	Introduction to Agriculture Computer Applications (2nd semester)	3
AG MGT 107a-d	Agricultural Communication/Journalism	1
AG MGT 271	Agriculture Business Industry	3
DAIRY 103	Dairy Herd Management	3
PLNT SCI 1	Introduction to Plant Science	3
AG ---	Other Approved Agriculture Classes With Approval of Department	1-4
Minimum Support Course Units:		11
Total Minimum Units Required:		30

Major and Certificate Requirements

- Associate Degree
 Certificate

Agricultural Pest Management

Degree: Degree not available.
Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

CERTIFICATE

A major/certificate in Agricultural Pest Management offers students an opportunity to develop valuable job entry skills in plant protection. Insect pests and plant diseases along with environmental and economic concerns are the primary focus of this program. Students interested in careers such as crop consultant or farm manager are encouraged to enroll in this area of study. Many of the courses will count as lower division requirements for advanced degrees in crop and plant science.

Course Numbers	Core Courses	Units
AG 3	Economic Entomology	3
AG 4	Soils	3
AG 105	Fertilizers	3
AG 125	Principles of Pesticide Use	3
AG MGT 108a-b	Introduction to Agriculture Computer Applications (1st semester)	3
PLNT SCI 1	Introduction to Plant Science	3
PLNT SCI 105	Weeds and Weed Control	3
WRK EXP 193	Occupational Cooperative Education/Internship (1st semester)	3
Minimum Core Course Units:		24

Course Numbers	Support Courses	Units
Select 6 additional units from this list to complete the total units required.		
AG 200	Orientation to Agriculture	3
AG 201	Agricultural Mathematics	3
AG MGT 102	Agricultural Sales and Service	3
AG MGT 108a-b	Introduction to Agriculture Computer Applications (2nd semester)	3
AG MECH 108	Irrigation	3
PLNT SCI 12	Fruit and Nut Tree Production	3
PLNT SCI 102	Row Crops	3
PLNT SCI 111	Citrus Production	3
PLNT SCI 113	Grape and Vine Production	3
PLNT SCI 271	The Plant Science Industry	3
AG ---	Other Approved Agriculture Classes With Approval of Department	3
Minimum Support Course Units:		6
Total Minimum Units Required:		30

Major and Certificate Requirements

Agricultural Power Equipment Technology

Associate Degree
Certificate

Degree: Degree not available

Certificate: 17 unit program below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Agricultural Power Equipment Technology Program prepares the student to enter the highly technical field of Power Equipment Technology. Studies include operation, service, repair and maintenance of modern agricultural equipment. Practical hands-on lessons as well as modern theory are stressed. Careers include shop technician, service manager, equipment operator, equipment sales, and field service technician. Many of the courses are transferable to universities for degrees in related agricultural mechanics fields.

Course Numbers	Core Courses	Units
AG 193	Occupational Cooperative Education/Internship (1-4)	6
AG MECH 209a-d	Small Engines	2
AG MECH 213	Principles of the Fluid Power Technician	3
AG MECH 214	Outdoor Power Equipment	3
Minimum Core Course Units:		14

Course Numbers	Support Courses	Units
Select 3 additional units from this list to complete the total units required.		
AG MGT 106a-b	Introduction to Agricultural Computer Applications	3
AG MECH 104	Farm Machinery	3
AG MECH 106a-b	Farm Welding	2
AG MECH 111	Agricultural Equipment Maintenance	2
AUTO 109	Air Conditioning	3
WELDING 161	Oxy-Acetylene Welding	4
Minimum Support Course Units:		3
Total Minimum Units Required:		17

Major and Certificate Requirements

- Associate Degree
- Certificate

Agricultural Science

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The major/certificate in Agricultural Sciences and Education is designed for a student who seeks employment as a general agriculturist or teacher in the agricultural education field. The generalized curriculum gives students a broad base in agricultural education that includes agriculture management, animal agriculture, agriculture technology, ornamental horticulture and plant science.

Course Numbers	Core Courses	Units
AG MGT 1	Agricultural Economics	3
AG MGT 108a-b	Introduction to Agriculture Computer Applications	3
AG MECH 101	Basic Farm Mechanics	3
AN SCI 1	Introduction to Animal Science	3
AN SCI 123	Horse Production	2
DAIRY 101	Elements of Dairy	3
OH 101	Basic Ornamental Horticulture	3
WRK EXP 193	Occupational Cooperative Education/Internship	1
Minimum Core Course Units:		21

Course Numbers	Support Courses	Units
Select 9 additional units from this list to complete the total units required.		
AG 4	Soils	3
AG 201	Agricultural Math	3
AG 200	Orientation To Agriculture	1
AG MGT 108a-b	Introduction to Agriculture Computer Applications	3
AG MGT 107a-d	Agricultural Communication/Journalism	1
AG MGT 271	Agricultural Business Industry	3
PLNT SCI 1	Introduction to Plant Science	3
WRK EXP 193	Occupational Cooperative Education/Internship (1-4) [1st semester]	1-4
AG ---	Other Approved Agriculture Classes With Approval of Department	1-4
Minimum Support Course Units:		9
Total Minimum Units Required:		30

Major and Certificate Requirements

Agricultural Technology

Associate Degree
 Certificate

- A.S. Degree:** Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate:** 30 units in courses listed below with a minimum of a "C" grade in all courses.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

Agriculture is highly mechanized, and production agriculture cannot exist without technology and machinery. Agricultural Technology 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 have the opportunity to study irrigation principles, land surveying and laser leveling. Farming industries are in need of agricultural technology students. Jobs are available on farms, sales and service of farm equipment, equipment manufacturing, ag mechanics and welding. All major universities offering agriculture programs offer advanced courses in all fields of Agricultural Technology.

Course Numbers	Core Courses	Units
AG MGT 108a-b	Introduction to Agriculture Computer Applications	3
AG MECH 101	Basic Farm Mechanics	3
AG MECH 103	Farm Power	3
AG MECH 106a-b	Farm Welding (1st and 2nd semesters)	2
WELDING 162	Shielded Metal Arc Welding	4
AG MECH 209a-d	Small Engines	2
AG MECH 110a-b	Project Construction	2
AG MECH 111	Equipment Maintenance	2
WRK EXP 193	Occupational Cooperative Education/Internship (1st semester)	2
Minimum Core Course Units:		23

Course Numbers	Support Courses	Units
Select 7 additional units from this list to complete the total units required.		
AG 200	Orientation to Agriculture	1
AG 201	Agricultural Mathematics	3
AG MGT 102	Agriculture Sales	3
AG MECH 108	Irrigation	3
AG MECH 271	Agricultural Mechanics, Skills and Projects	3
DAIRY 200a-b	Dairy Mechanics	2
WELDING 223	Stainless Steel Welding	3
AG ---	Other Approved Agriculture Classes With Approval of Department (1-3)	3
Minimum Support Course Units:		7
Total Minimum Units Required:		30

Major and Certificate Requirements

Associate Degree

Certificate

Animal Science

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Animal Science Program is designed for students whose major interest is in working with red meat farm food animals. Students work on the college's farm, combining practical experience with technical knowledge in the beef cattle, sheep, and swine units. Most Animal Science majors return to livestock operations or seek employment as vocational agriculture teachers, animal nutritionists, animal health technicians, meat inspectors or plant managers, and in sales and services.

Course Numbers	Core Courses	Units
AG MGT 108a-b	Introduction to Agriculture Computer Applications	3
AN SCI 1	Introduction to Animal Science	3
AN SCI 103	Animal Nutrition	3
AN SCI 110	Swine Production	3
AN SCI 111	Beef Cattle Production	3
AN SCI 112	Sheep Production	3
WRK EXP 193	Occupational Cooperative Education/Internship	3
Minimum Core Course Units:		21

Course Numbers	Support Courses	Units
Select 9 additional units from this list to complete the total units required.		
AG 200	Orientation to Agriculture	3
AG 201	Agricultural Mathematics	3
AG MGT 1	Introduction to Agriculture Economics	3
AN SCI 104	Animal Diseases and Sanitation	3
AN SCI 105	Livestock Marketing	1
AN SCI 107	Introduction to Meat Science	3
AN SCI 109	Basic Principles of Veterinarian	3
AN SCI 271	The Animal Science Industry	3
PLNT SCI 1	Introduction to Plant Science	3
AG ---	Other Approved Agriculture Classes With Approval of Department (1-4)	3
Minimum Support Course Units:		9
Total Minimum Units Required:		30

Major and Certificate Requirements

Architecture

Associate Degree
 Certificate

- A.S. Degree:** Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate:** 30 units in courses listed below with a minimum of a "C" grade in all courses.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

Architecture integrates social, cultural, technological, and aesthetic issues. Introductory courses in the field are appropriate for the general education of students of any major. The certificate in Architecture provides the knowledge and skills necessary for successful employment as a draftsman in architectural or engineering firms, or in related construction fields.

The degree in Architecture provides the basis for further study and employment in all aspects of environmental design, and enables students to transfer with credit in their major to university programs of architecture, interior design, planning, landscape architecture, product design, and civil engineering. It also provides the skills necessary for immediate employment in a technical capacity in architecture and allied professions.

Course Numbers	Core Courses	Units
First Semester:		
ARCH 10	Introduction to Architecture & Environmental Design	3
ARCH 20	Introduction to Graphics & Perspectives	3
ARCH 160	Materials of Construction	3
DRAFTING 114	Introduction to AutoCAD	4
MATH 200	Elementary Algebra	4
Second Semester:		
ARCH 11	Environmental Design Fundamentals	3
ARCH 21	Basic Graphics	3
ARCH 161a	Computer Assisted Architectural Drawing	3
MATH 220	Plane Geometry	4
Minimum Core Course Units:		30

Course Numbers	Support Courses	Units
Select additional units from this list for further study.		
ARCH 120	Freehand Drawing	3
ARCH 151	Independent Study	3
ARCH 161b-d	Computer Assisted Architectural Detailing	3
ARCH 190a-d	Supervised Practice	1-4
ARCH 221a-c	Perspective Alternatives	3
ART 6	Color and Design	3
DRAFTING 116a-d	Advanced AutoCAD Applications	4
DRAFTING 100	Applied Drawing	3
DRAFTING 115	Advanced AutoCAD Design	4
DRAFTING 170a-d	Computer Animation	4
OH 106	Landscape Drafting	3
OH 7	Landscape Design	3
Minimum Support Course Units:		0
Total Minimum Units Required:		30

Major and Certificate Requirements

- Associate Degree
 Certificate

Art

A.A. Degree: Core courses (12 units) plus support courses below (11 units) with a minimum grade of "C" in all courses, *plus* General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The Art program is designed to prepare students to enter the fields of studio art, graphic communication, or art history and to provide transfer Art majors the opportunity to achieve an AA degree in the student's area of specialization. While a baccalaureate degree is the minimal recommended preparation for those considering professional careers related to these fields, the completion of the suggested program will demonstrate commitment to the field. In addition, it will provide comprehensive preparation for upper division work and/or attainment of a degree supportive of attempts to gain entry-level employment in graphic design or as a free-lance artist.

Course Numbers	Core Courses	Units
ART 1	Art Appreciation	3
ART 6	Color and Design (Basic)	3
ART 8	Drawing Fundamentals	3
ART 11a-d	Sculpture	3
Minimum Core Course Units:		12

Course Numbers	Support Courses	Units
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Select 11 additional units from this list to complete the total units required.

Student desiring to specialize in 2-D, 3-D, or Digital Arts should emphasize elective courses within these fields.

ART 2	History of Art	3
or ART 3	History of Art (3)	
ART 4	Precolumbian Art of Mesoamerica	3
or ART 5	Precolumbian Art of South America (3)	
ART 7	Color and Design (advanced)	3
ART 9	Drawing Composition	3
ART 10a-d	Figure Drawing	2
ART 11a-d	Sculpture	3
ART 12a-d	Watercolor Painting	3
ART 13a-d	Studio Painting	2
ART 15	Printmaking	2
ART 16a-b	Advanced Printmaking	2
ART 17a-d	Basic Ceramics	3
ART 18a-d	Ceramic Design	3
ART 23a-d	Macintosh Basics for Artists and Beginners	3
ART 25a-d	Digital Imaging for Artists	3
ART 101a-d	Introductory Crafts	3
ART 104a-d	Lettering for Graphics	3
ART 105a-d	Basic Metalcraft Welding & Forging	3
ART 111a-b	Exhibition Design, Gallery	3
ART 119a-d	Beginning Stained Glass	3
ART 121a-c	Serigraphy/Screen Printing	3
ART 126a-d	Fractal Design Painter for Artists	3
ART 127	Introduction to Printmaking	3
ART 128a-d	Lithography	3
ART 212a-d	Photorealism	2
I&T 161a-d	Desktop Video Digital Production	4

Minimum Support Course Units: 11
Total Minimum Units Required: 23

Major and Certificate Requirements

Athletic Trainer/Sports Medicine

Associate Degree
 Certificate

A.S. Degree: 36 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
 (See page 54.)

Certificate: Certificate is not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

This program is designed to prepare the student to administer appropriate procedures in the prevention, care and rehabilitation of athletic injuries. Students who successfully complete the program may transfer to a four-year institution to continue their education in fulfillment of the requirements of the National Athletic Trainers Association.

Course Numbers	Core Courses	Units
BIOLOGY 30	Human Anatomy	4
BIOLOGY 31	Human Physiology	4
CHEM 20	General Chemistry	4
H&W 3	Standard First Aid	3
NUTR/FOOD 18	Nutrition	3
SMED 40	Care & Prevention of Athletic Injury	3
SMED 60	Concepts in Health & Fitness	3
SMED 70	Fall Sports	2
SMED 71	Spring Sports	2
SMED 72	Advanced Fall Sports	2
SMED 73	Advanced Spring Sports	2
Minimum Core Course Units:		32

Course Numbers	Support Courses	Units
Select 4 additional units from this list to complete the total units required.		
ANTHRO 10	Cultural Anthropology	3
CHEM 21	Organic/Biological Chemistry	4
H&W 1	Personal & Community Hygiene	3
H&W 104	Drugs & Society	3
PSYCH 1	General Psychology	3
SMED 180a-d	Applications for Sports Medicine	2-8
SMED 280a-d	Policies and Procedures for Sports Medicine	2
Minimum Support Course Units:		4
Total Minimum Units Required:		36

Major and Certificate Requirements

Automotive Technology

Associate Degree

Certificate

A.S. Degree: 38 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 33 units in courses listed below with a minimum of a "C" grade in all classes.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

This program offers pre-employment vocational training for the student desiring full-time work in automotive service and repair. All classes are designed to meet national certification standards for ASE testing. Instructors fully qualified both by shop experience as master technicians and by training as instructors conduct all technical classes in lecture, demonstration and laboratory sections. An advisory committee, composed of employers and working technicians, assists the college in maintaining a program geared to current needs of the trade.

The basic Automotive Technology Certificate Program is designed to be completed in one year. Since the courses offer skill-paths from the most basic automotive fundamentals and principles to advanced automotive theory and design, students should take the classes in a progressive order to properly complete the program.

The Associate of Science degree in Automotive Technology is a two-year course of study including lecture, demonstration and laboratory instruction, all emphasizing fundamental mechanical principles and applications.

ALL BEGINNING students must take AUTO 100 and 101. AUTO 100 and 101 may be taken with AUTO 102, 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 also complete a certificate in three (3) semesters by following a prescribed course of study.

Course Numbers	Core Courses	Units
First Semester:		
AUTO 100	Safety, Bench-Work and Service Procedures	2
AUTO 101	Automotive Electrical and Electricity	4
AUTO 102	Automotive Fuel and Cooling Systems	3
AUTO 104	Automotive Power Train Systems	3
AUTO 105	Automotive Brakes and Braking Systems	3
Second Semester:		
AUTO 106	Automotive Automatic Transmissions	4
AUTO 108	Automotive Engine Tune-Up	5
AUTO 109	Automotive Air Conditioning and Accessories	3
AUTO 113	Automotive Computerized Engine Control	3
AUTO 115	Automotive Steering, Suspension and Alignment	3
Minimum Core Course Units:		33

Course Numbers	Support Courses	Units
Select additional units from this list for further study.		
ACCT 287	Accounting for Businesses	3
AUTO 103	Automotive Engines	4
AUTO 107	Advanced Automotive Transmissions	3
AUTO 112	Advanced Automotive Electronic Fuel Injection	4
AUTO 190a-d	Automotive Supervised Practice	1-3
AUTO 202	Automotive Electronic Fuel Injection	3
I&T 160	Introduction to Technical Computer Applications	2
I&T 201	Technical Mathematics	4
Welding 161	Oxyacetylene Welding	4
Minimum Support Course Units:		0
Total Minimum Units Required:		33

Major and Certificate Requirements

Biology

Associate Degree
 Certificate

A.S. Degree: 25 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
 (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

The Biology major provides the student with some of the background necessary to pursue upper division study in a wide variety of biological fields, including premedicine, predentistry, prepharmacy, physiology, science teaching, research, marine biology, biotechnology and field ecology. The lower division Biology major requirements at most four-year institutions include a year each of organic chemistry, calculus and physics. Though these courses are not required for the COS Biology major, the student is strongly advised to complete most of these courses prior to transferring. A fully prepared biology major may complete the required biology courses and the support courses (organic chemistry, calculus and physics) in two years. However, most students choose to spread the course work over a longer period.

There are few jobs available, other than as a laboratory assistant, for students who have completed only the courses required for the A.S. Degree level Biology major. Nearly all jobs in the biological science field require at least a B.A. or B.S. degree and often require a graduate degree.

Course Numbers	Core Courses	Units
BIOLOGY 1 & 2	Principles of Biology	10
Minimum Core Course Units:		10

Course Numbers	Support Courses	Units
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Select 15 additional units (one course minimum from each group) to complete the total units required

Group 1:

MATH 21	Introduction to Statistics	4
MATH 70	Precalculus	5
MATH 75	Calculus With Analytic Geometry	5

Group 2:

BIOLOGY 40	General Microbiology	4
CHEMISTRY 1	General Chemistry	5
CHEMISTRY 2	General Chemistry	5
CHEMISTRY 12	Organic Chemistry	5
CHEMISTRY 13	Organic Chemistry	5
CHEMISTRY 20	General Chemistry	4
CHEMISTRY 21	General Chemistry	4
PHYSICS 5	Physics For Scientists and Engineers 1	4
PHYSICS 6	Physics For Scientists and Engineers 2	4
PHYSICS 7	Physics For Scientists and Engineers 3	4
PHYSICS 20	General Physics 1	4
PHYSICS 21	General Physics 2	4

Minimum Support Course Units: 15

Total Minimum Units Required: 25

Major and Certificate Requirements

- Associate Degree
 Certificate

Business, General

Degree: Degree not available.
Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

CERTIFICATE

Students completing the General Business certificate will have a background in business vocabulary, organizational structure, human relations, ethics, marketing, and other topics that will prepare them for entry into a pre-supervisory position. Supervision skills are very important to all organizations. Students seeking a General Business A. S. Degree may take the General Business Certificate requirement plus General Education and graduation requirements.

Course Numbers	Core Courses	Units
BUS 18	Business Law	4
BUS 82	Introduction to Business	3
BUS 184	Business Communication	3
BUS 185	Ethics in Business and Industry	3
BUS 188	Human Relations in Business	3
BUS 230	Supervision Management for the First-Line Supervisor	3
COMPUTER 130	Introduction to Personal Computers	4
COMPUTER 227	Presentation Software for Business	1.5
COMPUTER 228	Introduction to the World Wide Web	1
Minimum Core Course Units:		25

Course Numbers	Support Courses	Units
Select 5 additional units from this list to complete the total units required.		
ACCT 101	Essentials of Accounting	5
BUS 174	Marketing Principles	3
BUS 231	Starting a New Business	3
COMPUTER 140	Windows and DOS	3
COMPUTER 229	Web Page Design and Development	3
WRK EXP 193	Occupational Cooperative Education/Internship - 1st semester	1-4
WRK EXP 194	Occupational Cooperative Education/Internship - 2nd semester	1-4
WRK EXP 195	Occupational Cooperative Education/Internship - 3rd semester	1-4
WRK EXP 196	Occupational Cooperative Education/Internship - 4th semester	1-4
Minimum Support Course Units:		5
Total Minimum Units Required:		30

Major and Certificate Requirements

Business Management

Associate Degree
Certificate

A.S. Degree: 30 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

- The Associate Degree will be granted upon the completion of 60 units chosen from courses numbered 1 to 299 and the following requirements:

A certificate in Business, General (See page 92) or:

Marketing Management (see page 143) plus General Education and graduation requirements.
- Students planning to transfer to a four-year school are encouraged to review specific requirements with a counselor and check the major sheet of the university they plan to attend.

Major and Certificate Requirements

- Associate Degree
- Certificate

Certified Nursing Assistant

A.S. Degree: Degree not available.
Certificate: 6 units in courses listed below with a minimum of a "C" grade in all courses.

CERTIFICATE

The certificate offered by the Division of Nursing and Health Science is issued by the State of California through the Department of Health Services. The program offered is a single course which prepares the student to receive a certificate permitting practice as a Certified Nurses Assistant. Jobs are plentiful and offered at many sites throughout the college district.

To qualify for the state certificate, the student must pass the course with a grade of "C" or better, and successfully pass a state examination to verify competence in the area. Fingerprint clearance by the Department of Justice is required. Specific information about the criminal record review involved may be obtained from the Division office.

Course Numbers	Core Courses	Units
Nursing 351	Certified Nursing Assistant	6
Total Minimum Units Required:		6

Major and Certificate Requirements

Chemistry

Associate Degree

Certificate

A.S. Degree: 30 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
(See page 54.)

Certificate: Certificate is not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

The Chemistry major provides the student with the background necessary to pursue upper division study in chemistry. Students should check for additional specific requirements at four-year institutions, particularly in the math and physics courses required.

Employment opportunities with an A.S. in chemistry may be limited to those employers that use chemical testing for quality control and/or need a laboratory technician.

Course Numbers	Core Courses	Units
CHEMISTRY 1	General Chemistry	5
CHEMISTRY 2	General Chemistry	5
CHEMISTRY 12	Organic Chemistry	5
CHEMISTRY 13	Organic Chemistry	5
Minimum Core Course Units:		20

Course Numbers	Support Courses	Units
Select additional units from this list.		
BIOLOGY 1	Principles of Biology	5
BIOLOGY 20	Frontiers in Biology	4
MATH 61	Calculus	3
or MATH 75	Calculus	5
PHYSICS 5	General Physics	4
or PHYSICS 20	General Physics	4
Minimum Support Course Units:		10
Total Minimum Units Required:		30

Major and Certificate Requirements

Associate Degree

Certificate

Child Development

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 24 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

Increased attention is being focused on the educational needs and potential of children, from birth through adolescence. Students trained in Child Development will have a direct impact on these children. As more parents enter the workforce and need early childhood programs, there is growing need for trained men and women who have a sound understanding of the social, emotional, physical, cognitive and creative needs of children. Employment opportunities include jobs in privately and publicly funded child care programs, family child care, and school ages programs. The Child Development Program provides the twelve units required by the State for a Child Development Permit, as well as degree, transfer, and certificate classes.

Course Numbers	Core Courses	Units
CHLD DEV 39	Child Development	3
CHLD DEV 42	Child, Family and Society	3
CHLD DEV 134	Child Abuse	2
CHLD DEV 140	Principles of ECE	3
CHLD DEV 141	Practices in ECE	3
CHLD DEV 148	Child Health and Safety	3
CHLD DEV 158	Cultural Diversity in ECE	3
Minimum Core Course Units:		20

Course Numbers	Support Courses	Units
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Select 4 additional units from this list to complete the total units required.

CHLD DEV 112	Children's Nutrition	3
CHLD DEV 135	Music Experiences in ECE	1
CHLD DEV 136	Children's Literature	2
CHLD DEV 137	Science Experiences in ECE	1
CHLD DEV 138	Science Experiences in School-Age Education	1
CHLD DEV 142	Mentor Teacher	2
CHLD DEV 143	Administration of ECE	3
CHLD DEV 144	Advanced Administration of ECE	3
CHLD DEV 145	Parenting	3
CHLD DEV 146	Exceptional Child	3
CHLD DEV 147	Infant/Toddler	3
CHLD DEV 149	Creative Activities	2
CHLD DEV 150	Creative Activities	2
CHLD DEV 152	School Age Child Care	3
CHLD DEV 153	Creative Movement for the Classroom	1
CHLD DEV 154	Introduction to Early Intervention	3
CHLD DEV 155	Child Guidance	3
CHLD DEV 156	Family Day Care Management	1
CHLD DEV 157	Family Day Care Principles & Practices	1
CHLD DEV 160	Literacy/Language in Children	3
CHLD DEV 199	Topics Courses	1
Minimum Support Course Units:		4
Total Minimum Units Required:		24

Major and Certificate Requirements

Child Development, Early Childhood Education, Option II

Associate Degree
 Certificate

Degree: Degree Not Available.
Certificate: 26 units in courses listed below with a minimum of a "C" grade in all courses.

CERTIFICATE

Current legislation has mandated that young children with special needs, who are high risk or disabled, be served starting at birth in natural environments. Teachers and practitioners who work in Early Childhood Education and Care Giving settings require training and experience with specific course work related to Early Intervention and Early Childhood Special Education. The Early Childhood Special Education Option 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 Child Development Permit, as well as degree, transfer and certificate classes.

Core Courses	Course Names	Units
CHLD DEV 39	Child Development	3
CHLD DEV 42	Child, Family and Society	3
CHLD DEV 140	Principles of ECE	3
CHLD DEV 146	Exceptional Child	3
CHLD DEV 147	Infant/Toddler	3
CHLD DEV 148	Child Health and Safety	3
CHLD DEV 154	Introduction to Early Intervention	3
CHLD DEV 158	Cultural Diversity in ECE	3
CHLD DEV 193	Cooperative Work Experience in Early Intervention and Special Education	2***
Total Minimum Units Required:		26

***One unit of Work Experience MUST BE in an Early Intervention setting working with infants and toddlers who are high risk or disabled, and must be supervised by an approved practitioner in the field. The other unit of Work Experience will be done at a center based Special Education classroom, supervised by a professional with appropriate California Special Education credentials.

Major and Certificate Requirements

- Associate Degree
 Certificate

Commercial Art

Degree: Degree not available.
Certificate: 33 units in courses listed below with a minimum of a "C" grade in all courses.

CERTIFICATE

Commercial Art is a vital component of stimulating messages for advertising, education and politics. There is a demand for commercial artists. 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.

Course Numbers	Core Courses	Units
ART 1	Art Appreciation	3
ART 6	Color and Design (Basic)	3
ART 8	Drawing Fundamentals	3
ART 15	Printmaking	3
ART 23a-d	Macintosh Basics for Artists and Beginners	3
PHOTO 1	Beginning Photography	3
DRAFTING 160	Graphic Design	3
IND ST 151	Independent Study (Computer Illustration)	2
or IND ST 251	Independent Study (Computer Illustration) (2)	
Minimum Core Course Units:		23

Course Numbers	Support Courses	Units
Select 13 additional units from this list to complete the total units required.		
ART 9	Drawing Composition	3
ART 10a-d	Figure Drawing (2)	2-8
ART 12a-d	Watercolor Painting (3)	3-12
ART 13a-d	Studio Painting (2)	2-8
ART 16	Advanced Printmaking	2
ART 25a-d	Digital Imaging for Artists (3)	3-12
ART 104a-d	Lettering for Graphics (3)	3-12
ART 121a-c	Serigraphy/Screen Printing (3)	3-9
ART 126a-d	Fractal Design Painter for Artists (3)	3-12
ART 174a-b	Fashion Illustration (3)	3-6
I&T 161a-d	Desktop Video Digital Production (4)	4-16
Minimum Support Course Units:		10
Total Minimum Units Required:		33

Major and Certificate Requirements

Computer Applications

Associate Degree
 Certificate

- A.S. Degree:** Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate:** 30 units in courses listed below with a minimum of a "C" grade in all courses.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

Students with a Computer Applications certificate or degree will be prepared to entry-level positions requiring computer application skills, as well as have a good foundation for transferring to a four-year college as a Computer Information Systems major.

Course Numbers	Core Courses	Units
BUS 82	Introduction to Business (3)	3
or BUS 184	Business Communications (3)	
COMPUTER 5	Introduction to Computer Information Systems (4)	4
or COMPUTER 130	Introduction to Personal Computers (4)	
COMPUTER 133	Database Processing	3
COMPUTER 136	Word Processing Using WordPerfect (3)	3
or COMPUTER 221a-d	Beginning Word (1.5) and	
COMPUTER 222a-d	Advanced Word (1.5)	
COMPUTER 138	Spreadsheet Design for Business	3
or COMPUTER 223a-d	Beginning Excel (1.5) and	
COMPUTER 224a-d	Advanced Excel (1.5)	
COMPUTER 140	Windows and DOS	3
Minimum Core Course Units:		19

Course Numbers	Support Courses	Units
Select 11 additional units from this list to complete the total units required.		
ART 23	Macintosh Basics for Artists and Designers	3
BUS 174	Marketing Principles	3
BUS 188	Human Relations in Business	3
COMPUTER 6	BASIC Programming	3
COMPUTER 7	COBOL Programming	4
COMPUTER 135	Desktop Publishing for Business	4
COMPUTER 210	Computer Accounting	3
COMPUTER 227a-d	Presentation Software for Business	1.5
COMPUTER 228	Introduction to the World Wide Web	1
COMPUTER 229	Web Page Design and Development	3
DRAFTING 114	Introduction to AutoCAD	4
DRAFTING 170a-d	Computer Animation and Rendering	4
ELECT 113	PC Troubleshooting/Repair	4
I&T 170	Computer Skills for Women in Building Design and Construction	1
Minimum Support Course Units:		11
Total Minimum Units Required:		30

Major and Certificate Requirements

- Associate Degree
- Certificate

Computer/Information Systems

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

Students with a Computer and Information Systems certificate or degree will be prepared for entry-level computer positions such as data entry, technical support, and office positions involving computer skills.

Course Numbers	Core Courses	Units
BUS 82	Introduction to Business	3
COMPUTER 5	Introduction to Computer Information Systems (4)	4
or COMPUTER 130	Introduction to Personal Computers (4)	
COMPUTER 6	BASIC Programming	3
COMPUTER 7	COBOL Programming	4
COMPUTER 133	Database Processing	3
COMPUTER 138	Spreadsheet Design for Business	3
or COMPUTER 223a-d	Beginning Excel (1.5) and	
COMPUTER 224a-d	Advanced Excel (1.5)	
COMPUTER 140	Windows and DOS	3
ELECT 113	PC Troubleshooting/Repair	4
Minimum Core Course Units:		27

Course Numbers	Support Courses	Units
Select 3 additional units from this list to complete the total units required.		
ACCT 101	Essentials of Accounting	5
or ACCT 1	Principles of Accounting	4
BUS 184	Business Communications	3
BUS 185	Ethics in Business and Industry	3
BUS 188	Human Relations in Business	3
COMPUTER 132	Advanced DOS	3
COMPUTER 135	Desktop Publishing for Business	4
COMPUTER 136	Word Processing Using WordPerfect	3
COMPUTER 210	Computer Accounting	3
COMPUTER 227a-d	Presentation Software for Business	1.5
COMPUTER 228	Introduction to the World Wide Web	1
COMPUTER 229	Web Page Design & Development	3
ELECT 141	Computer Networking Fundamentals	3
Minimum Support Course Units:		3
Total Minimum Units Required:		30

Major and Certificate Requirements

Computer Web Technician

Associate Degree
 Certificate

Degree: Degree not available.

Certificate: The 6 core units listed below with a minimum of a "C" grade, plus the Computer Applications Certificate or the Computer and Information Systems Certificate for a total of 36 units.

CERTIFICATE

Students with a Computer Web Technician certificate or degree will be prepared for a variety of entry-level computer positions so important in today's business world. This course of study includes a foundation of computer applications, including courses that specialize in designing, creating, and maintaining Web sites and intranets.

Course Numbers	Core Courses	Units
COMPUTER 229	Web Page Design and Development	3
DRAFTING 160	Graphic Design	3
Minimum Core Course Units:		6

Course Numbers	Support Courses	Units
Select additional units from this list for further study.		
ART 23a-d	Macintosh Basics for Artists and Designers	2
BUS 174	Marketing Principles	3
BUS 184	Business Communications (3)	3
BUS 185	Ethics in Business and Industry	3
BUS 231	Starting a New Business	3
ELECT 113	PC Troubleshooting/Repair	4
ELECT 141	Computer Networking Fundamentals	3
ENGLISH 1	College Reading and Composition {Applied Writing Theorem}	3
ENGLISH 251	Fundamentals of College Writing	3
WRK EXP 193	Work Experience: Web Development Internship	1-4

Minimum Support Course Units: 0

**Computer Applications Certificate
 or Computer and Information Systems certificate** 30

Total Minimum Units Required: 36

Major and Certificate Requirements

- Associate Degree
- Certificate

Computerized Office Procedures

- A.S. Degree:** Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate:** 30 units in courses listed below with a minimum of a "C" grade in all courses.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Computerized Office Procedures Program teaches a wide variety of skills such as compiling reports, organizing data, preparing statements, writing letters, and working with computers. Figures show that a high percentage of all new jobs are in the general office field. With the service sector of our economy growing rapidly, there is a large demand for persons trained in computerized office procedures. Students should be able to find entry-level employment in all phases of business including jobs as clerk typists, receptionists, and word processing operators.

Course Numbers	Core Courses	Units
BUS 161	Intermediate Keyboarding	3
BUS 184	Business Communications	3
BUS 188	Human Relations in Business	3
BUS 268	Electronic Calculating	2
BUS 293	Business English	3
BUS 295	Business Math (3)	3
or BUS 119	Quantitative Methods (3)	
or BUS 20	Business Statistics (3)	
COMPUTER 5	Introduction to Computer Information Systems (4)	4
or COMPUTER 130	Introduction to Personal Computers (4)	
COMPUTER 136	Word Processing Using WordPerfect (3)	3
or COMPUTER 221a-d	Beginning Word (1.5) and	
COMPUTER 222a-d	Advanced Word (1.5)	
COMPUTER 140	Windows and DOS	3
COMPUTER 227	Presentation Software for Business	1.5
COMPUTER 228	Introduction to the World Wide Web	1
Minimum Core Course Units:		29

Course Numbers	Support Courses	Units
Select 1 additional unit from this list to complete the total units required.		
BUS 82	Introduction to Business	3
BUS 185	Ethics in Business and Industry	3
BUS 260	Career Dressing	1
COMPUTER 133	Database Processing	4
COMPUTER 135	Desktop Publishing for Business	4
COMPUTER 138	Spreadsheet Design for Business	3
COMPUTER 220	Essential Computer Concepts	1
COMPUTER 229	Web Page Design & Development	3
Minimum Support Course Units:		1
Total Minimum Units Required:		30

Major and Certificate Requirements

Construction Inspection

Associate Degree

Certificate

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
(See page 54.)

Certificate: 21 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Construction Inspection certificate is offered to students majoring in Building Construction who desire employment in the field of building construction and supervision. The classes can be taken in any order.

The following courses may be taken in any order the student wishes.

Course Numbers	Core Courses	Units
CT 170	Building Inspection and Supervision --Concrete Construction	3
CT 171	Building Inspection and Supervision --Wood & Metal Construction	3
CT 172	Building Codes	3
CT 173	Building Inspection and Supervision --Electrical	3
CT 174	Building Inspection and Supervision --Mechanical	3
CT 175	Building Inspection and Supervision --Plumbing	3
CT 176	Building Inspection and Supervision --Architecture	3
	Total Minimum Units Required:	21

Major and Certificate Requirements

- Associate Degree
- Certificate

Construction Technology

A.S. Degree: 38 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 38 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Construction Technology Program is designed to provide students with the skills and education necessary for employment in one of the many fields related to the construction industry. Some of the job opportunities are: house framer, finisher, house painter, house designer, building materials sales person or manager. Students in this program will enroll in four nine-week (approximately) classes each worth seven units and six units of support classes. A student may enroll at any of the nine week starting points. The program consists of classroom instruction which deals with nomenclature, building materials, fasteners, building layout, roof framing, stair construction, rough and finish carpentry and cabinet design, construction and installation. The students will participate in the construction of an actual custom home which will provide them with real-world experience in the building trades/construction industry.

Course Numbers	Core Courses	Units
CT 121	Residential Construction I	7
CT 122	Residential Construction II	7
CT 123	Residential Construction III	7
CT 124	Residential Construction IV	7
WRK EXP 193-196	Occupational Cooperative Education/Internship	4
Minimum Core Course Units:		32

Course Numbers	Support Courses	Units
Select 6 additional units from this list to complete the total units required.		
CT 130	Managing Residential Construction	3
CT 134	Residential Construction Estimating	3
CT 135	Blueprint Reading/Residential Construction	3
CT 138	Contractors License Law	3
CT 162a-b	Basic Cabinet Making	3
CT 190a-d	Supervised Practice	1-3
CT 205a-d	Plumbing	3
CT 270a-b	Residential Wiring	3
DRAFTING 114	Introduction to AutoCAD	4
DRAFTING 130	Introduction to Computer Assisted Cabinet Design	4
DRAFTING 131	Advanced Computer Assisted Cabinet Design	4
I&T 160	Introduction to Technical Computer Applications	2
Minimum Support Course Units:		6
Total Minimum Units Required:		38

Major and Certificate Requirements

Consumer/Family Studies

Associate Degree

Certificate

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

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 help 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 with a wide-ranging field with career opportunities in teaching, dietetics, fashion merchandising and design, consumer affairs, family counseling and adult and child services.

Core Courses	Course Names	Units
CFS 80 <i>or</i> CHLD DEV 39	Life-Span Development (3) Child Development (3)	3 3
CFS 186	Personal Management/Consumer Economics	3
FASH 160a-b <i>or</i> FASH 161a-b	Clothing Construction (3) Tailoring (3)	3 3
FASH 175M1	Fashion Image	1.5
FASH 175M2	Fashion Image	1.5
INT DES 121	Interior Design Fundamentals	3
NUTR/FOOD 101	Basic Foods	3
NUTR/FOOD 18	Nutrition	3
Total Minimum Units Required:		21

Major and Certificate Requirements

- Associate Degree
- Certificate

Cosmetology

A.S. Degree: Certificate units with a minimum grade of a "C" plus General Education and graduation requirements.
Certificate: 24-38 units with a minimum grade of a "C" in all courses.

CERTIFICATE

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, physiology and chemical composition of skin and nails, and disorders and diseases of the skin, scalp and hair.

After passing the state licensing exam, cosmetologists have career opportunities as beauticians, beauty shop owners and specialty fields such as electrologists and manicurists. The certificate requires 1600 hours to complete.

Course Numbers	Core Courses	Units
COSMETOL 261	Cosmetology	6-12
COSMETOL 262	Cosmetology	6-12
COSMETOL 263a-b (a)	Cosmetology	6-8
COSMETOL 263a-b (b)	Cosmetology	6-8
Total Minimum Units Required:		24-38

Students must complete a minimum of 252 hours per semester in order to receive six units of credit. Additional hours attended will result in additional units based upon 42 hours equals one (1) unit. Student may attend a maximum of four semesters which would be COSMETOL 261, 262, 263a, and 263b. The maximum number of hours a student may attend is 1,600 or four semesters, whichever is less.

- Minimum 252 hours = 6 units credit
- Minimum 294 hours = 7 units credit
- Minimum 336 hours = 8 units credit
- Minimum 378 hours = 9 units credit
- Minimum 420 hours = 10 units credit
- Minimum 462 hours = 11 units credit
- Minimum 504 hours = 12 units credit

Major and Certificate Requirements

Dairy Science

Associate Degree
 Certificate

- A.S. Degree:** Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate:** 30 units in courses listed below with a minimum of a "C" grade in all courses.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Dairy Science Program is designed for students who seek a certificate, degree or transfer program in the Dairy Science field. The coursework provides the fundamentals for job entry-level skills in dairy management as well as providing degree applicable units for the Associate in Science degree with a major in Dairy Science. Many Dairy Science courses transfer to four-year universities and are required lower division classes. The COS Dairy Science Certificate/Degree major provides a framework for students interested in the dairy industry.

Course Numbers	Core Courses	Units
AG MGT 108a-b	Introduction to Agriculture Computer Applications (1st semester)	3
DAIRY 101	Elements of Dairy	3
DAIRY 102	Milk Production	3
DAIRY 103	Commercial Dairy Management	3
DAIRY 104	Breeding & Selection	3
DAIRY 108	Dairy Nutrition	3
DAIRY 200	Dairy Mechanics	2
WRK EXP 193	Occupational Cooperative Education/Internship (1st semester)	3
Minimum Core Course Units:		23

Course Numbers	Support Courses	Units
Select 7 additional units from this list to complete the total units required.		
AG MGT 108a-b	Introduction to Agriculture Computer Applications (2nd semester)	3
AG 201	Agricultural Mathematics	3
AG 200	Orientation To Agriculture	1
DAIRY 105a-d	Dairy Judging (1-4)	4
DAIRY 106a	Dairy Products Technology	3
DAIRY 271	The Dairy Industry	3
PLNT SCI 104	Forage Crops	3
AG	Other Approved Agriculture Classes With Approval of Department	1-4
Minimum Support Course Units:		7
Total Minimum Units Required:		30

Major and Certificate Requirements

Associate Degree

Certificate

Dance

A.A. Degree: 26 units with a minimum "C" grade in all required courses, **plus** General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

Dance comes from the inner self and the need to communicate. Before there was written work, there was dance. This course of study provides the person who loves dance with the training to go on to a four-year institution. The Dance major will find jobs in private studios, recreation programs, YMCA's and schools, directing dance programs, drill teams, and cheerleading squads. They may find employment at entertainment parks such as Disneyland, Universal Studios, or Six Flags, or with semi-professional or professional theater companies or dance companies throughout the United States. Some dancers specialize in Dance therapy, offering a holistic approach to healing.

Course Numbers	Core Courses	Units
ART 1	Art Appreciation	3
DANCE 6a-d	Choreography	1
DANCE 8a-d	Beginning Ballet	1
DANCE 10a-d	Modern Dance	1
DANCE 12a-b	Beginning Jazz	1
DANCE 13c-d	Advanced Jazz	1
DANCE 16a-d	Beginning Tap	1
H&W 1	Personal Hygiene	3
MUSIC 10	Appreciation of Music History	3
THR ART 2	Fundamentals of Acting	3
THR ART 12a-b	Costuming	3
THR ART 17a-b	Make up	3
Minimum Core Course Units:		24

Course Numbers	Support Courses	Units
Select 2 additional units from this list to complete the total units required		
DANCE 41a-d	Musical Theater Performance	2
H&W 3	Standard First Aid	3
H&W 40	Care & Prevention of Athletic Injuries	3
H&W 60	Concepts of Health & Fitness	3
PE 36	Introduction to Physical Education	3
PE 188	Peak Performance for Athletes	3
Minimum Support Course Units:		2
Total Minimum Units Required:		26

Major and Certificate Requirements

Drafting Technology

Associate Degree
 Certificate

A.S. Degree: 40 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

Drafting is a major component of design for any product that is to be manufactured or constructed. The graphic documents necessary to convey sizes, shapes, materials, locations, assembly methods, standards, and processes are mandatory in today's global industrial market. The computer has allowed drafters speed and accuracy in production as well as remote communication and access to document information. Computer assisted drafting now dominates the field. Students with very strong computer knowledge and skills will find many career opportunities.

Course Numbers	Core Courses	Units
First Semester		
COMPUTER 140	Windows and DOS	3
DRAFTING 100	Applied Drawing	3
DRAFTING 114	Introduction to AutoCAD	4
Second Semester		
DRAFTING 115	Advanced AutoCAD	4
Third Semester		
DRAFTING 116	Advanced AutoCAD Applications	8
Minimum Core Course Units:		22

Course Numbers	Support Courses	Units
Select 8 (certificate) or 18 (A.S. Degree) additional units from this list to complete the total units required.		
ARCH 20	Introduction to Graphics and Perspective	3
ARCH 21	Basic Graphics	3
ARCH 120	Freehand Drawing	3
COMPUTER 229	Web Page Design and Development	3
DRAFTING 130	Introduction to Computer Assisted Cabinet Design	4
DRAFTING 131	Advanced Computer Assisted Cabinet Design	4
DRAFTING 151	Independent Study	1-9
DRAFTING 160	Graphic Design	3
DRAFTING 161a-d	Graphic Design Application	4-12
DRAFTING 170a-d	Computer Animation	4-12
DRAFTING 190a-d	Supervised Practice	1-12
DRAFTING 199	Special Topics	1-12
I&T 160	Introduction to Technical Computer Applications	2
I&T 161a-d	Desktop Video Digital Production	4-12
I&T 185	Ethics in Business and Industry	3
WRK EXP 191-196	Work Experience	1-6
Minimum Support Course Units for Certificate:		8
Total Maximum Units Required for a Certificate:		30
Minimum Support Course Units for Degree:		18
Total Maximum Units Required for a Degree:		40

Major and Certificate Requirements

- Associate Degree
- Certificate

Dramatic Arts: Acting

A.A. Degree: 28 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The Dramatic Arts program is a two-year course of study designed to prepare students to enter all fields of Theatre; i.e., set design and construction, lighting, costuming, make-up and acting. Emphasis is placed upon the practical application of classroom learning into fully realized stage productions. The Dramatic Arts program has two areas of emphasis, each with its own requirements: Acting and Technical.

Course Numbers	Core Courses	Units
THR ART 1	Introduction to the Theatre	3
THR ART 2	Fundamentals of Acting I	3
THR ART 12a-b	Costuming (1 semester)	3
THR ART 13a-b	Beginning Stagecraft (1 semester)	3
THR ART 15a-b	Beginning Stage Lighting (1 semester)	3
THR ART 19a-b	Theatre Workshop I (2 semesters/2 units each)	4
or THR ART 22a-d	One Act Play Production (2) and	
THR ART 21	Theatre Arts Workshop II (2)	
Minimum Core Course Units:		19

Course Numbers	Support Courses	Units
Select 9 additional units from this list to complete the total units required.		
THR ART 3	Fundamentals of Acting II	3
THR ART 4	Intermediate Acting I	3
THR ART 5	Intermediate Acting II	3
THR ART 6	Shakespeare	3
THR ART 7	Acting Shakespeare	3
THR ART 8	History of Theater and Drama	3
THR ART 19a-d	Rehearsal and Performance (2 semesters)	4
THR ART 20	Music Theatre Performance	2
THR ART 22a-d	One Act Play Production	2
THR ART 130	Stage Movement/Stage Combat	3
THR ART 140	Musical Theatre	3
Minimum Support Course Units:		9
Total Minimum Units Required:		28

Major and Certificate Requirements

Dramatic Arts: Technical

 Associate Degree

 Certificate

- A.A. Degree:** 28 units below with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate:** Certificate not available.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The Dramatic Arts program is a two-year course of study designed to prepare students to enter all fields of Theatre; i.e., set design and construction, lighting, costuming, makeup and acting. Emphasis is placed upon the practical application of classroom learning into fully realized stage productions. The Dramatic Arts Program has two areas of emphasis, each with its own requirements: Acting and Technical.

Course Numbers	Core Courses	Units
THR ART 1	Introduction to the Theatre	3
THR ART 2	Fundamentals of Acting I	3
THR ART 12a-b	Costuming (1 semester)	3
THR ART 13a-b	Beginning Stagecraft (1 semester)	3
THR ART 15a-b	Beginning Stage Lighting (1 semester)	3
THR ART 19a-b	Theatre Workshop I (2 semesters/2 units each)	4
or THR ART 22a-d THR ART 21	One Act Play Production (2) and Theatre Arts Workshop II (2)	
Minimum Core Course Units:		19

Course Numbers	Support Courses	Units
Select 9 additional units from this list to complete the total units required.		
THR ART 6	Shakespeare	3
THR ART 8	History of theater and Drama	3
THR ART 12a-b	Costuming (2 nd semester)	3
THR ART 13a-b	Stagecraft (2 nd semester)	3
THR ART 14a-b	Intermediate Stagecraft (both semesters)	6
THR ART 15a-b	Beginning Stage Lighting (2 nd semester)	3
THR ART 16a-b	Intermediate Stage Lighting (both semesters)	6
THR ART 18a-b	Advanced Theatre Crafts	3
THR ART 20	Music Theatre Performance	2
THR ART 22 a-d	One Act Play Production	2
Minimum Support Course Units:		9
Total Minimum Units Required:		28

Major and Certificate Requirements

- Associate Degree
- Certificate

Electronics Technology

A.S. Degree: 30 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

This program offers pre-employment vocational training for students desiring employment in the electronics industry, and preparation for students who wish to pursue advanced study at a four-year college. 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 troubleshooting techniques are emphasized in ALL classes. Employment opportunities are available in communications, consumer products servicing, microcomputers, and manufacturing.

Course Numbers	Core Courses	Units
First Semester		
ELECT 101	D.C. Circuits	5
ELECT 110	Digital Circuits	3
Second Semester		
ELECT 102	A.C. Circuits	5
ELECT 111	Microprocessors/PLC Fundamentals	3
ELECT 112	Microprocessor Applications	4
Third Semester		
ELECT 103	Semiconductor Circuits	5
ELECT 114	Operational Amplifier Circuits	3
Minimum Core Course Units:		28

Course Numbers	Support Courses	Units
Select 2 additional units from this list to complete the total units required for a Certificate.		
ELECT 104	Communication Circuits	5
ELECT 105	Industrial Fabrication and Design	3
ELECT 107	Basic Video Systems	3
ELECT 108	Advanced Video Systems	3
ELECT 113	PC Troubleshooting/Repair	4
ELECT 141	Computer Networking Fundamentals	3
ELECT 190a-d	Supervised Practice	1
I&T 201	Technical Mathematics	4
I&T 270a-b	Residential Wiring	3
I&T 272	Electrical Wiring, Industrial	3
I&T 273	Electrical Motor Control	2
Minimum Support Course Units:		2
Total Minimum Units Required:		30

Certificates With Special Emphasis:

Students who have completed the required core courses listed above may specialize in the following areas by taking these additional classes:

Emphasis in **Computer Networks** must take as electives:
 ELECT 113, ELECT 141

Emphasis in **PC Setup and Repair** must take as electives:
 ELECT 113, ELECT 105, COMPUTER 5

Emphasis in **Electronic Motor Controls** must take as electives:
 I&T 273, I&T 274

Emphasis in **Electrical Wiring** must take as electives:
 I&T 270a-b, I&T 271, I&T 272

Emphasis in **Communication Circuits** must take as electives:
 ELECT 104, ELECT 105

Major and Certificate Requirements

Emergency Medical Technician B

Associate Degree
 Certificate

A.S. Degree: Degree is not available.
Certificate: 4 units in courses listed below with a minimum of a "C" grade in all courses.

CERTIFICATE

The certificate offered by the Division of Nursing and Health Science is issued by the Tulare County Department of Emergency Services. The program offered is a single course which prepares the student to receive a certificate permitting practice as an Emergency Medical Technician. Jobs are plentiful and offered at many sites throughout the college district.

To qualify for the certificate, the student must pass the course with a grade of "C" or better, and will be required to successfully pass an examination to verify competence in the area.

The Emergency Medical Technician B course prepares the student for certification for entry level positions with ambulance companies and in hospital emergency rooms. Opportunities for full or part time employment in emergency medical services are available to qualified applicants.

Those who complete the EMT B program (formerly EMT 1) are eligible for Tulare County Certification and employment by government and private emergency health care services in the area. They are also eligible to enter Emergency Medical Technician II training, which provides opportunity for career advancement, higher pay, and greater responsibility in providing emergency health care. Some EMTs enter nursing and other advanced health care fields after they have learned about career possibilities through their work as an EMT. Call the Nursing and Health Science Division Office for more information (730-3732).

Course Numbers	Core Courses	Units
EMT 351b	Emergency Medical Technician B	4
	Total Minimum Units Required:	4

Major and Certificate Requirements

- Associate Degree
- Certificate

Engineering

A.S. Degree: 29 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

Students receiving the associate degree in engineering usually transfer to four year institutions to complete their bachelors degree in engineering. Employment opportunities will depend on the area of specialization and the economic state of the various industries hiring those specializations. For this reason students are urged to gain as broad an exposure to the field as possible.

Course Numbers	Core Courses	Units
ENGR 1	Graphics	3
ENGR 2	Statics	3
ENGR 3	Materials Sciences	3
PHYSICS 5	Physics for Scientists and Engineers 1	5
PHYSICS 6	Physics for Scientists and Engineers 2	5
PHYSICS 7	Physics for Scientists and Engineers 3	5
MATH 76	Calculus 2	5
Minimum Core Course Units:		29

Course Numbers	Support Courses	Units
Student are strongly encouraged to complete the following courses as well.		
MATH 77	Calculus 3	3
MATH 80	Linear Algebra	3
MATH 81	Differential Equations	5
Minimum Support Course Units:		0
Total Minimum Units Required:		29

Major and Certificate Requirements

English

Associate Degree
 Certificate

A.A Degree: 18 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
 (See page 54.)

Certificate: Certificate is not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

English with a Literature Emphasis serves the needs of students who plan to major in English at the four-year level. Four-year institutions presume a broad exposure to literature in their upper division students, just the kind of background our general literature courses offer.

Students may also find this major helpful if they plan to work in education, publishing and editing, journalism, humanities-based careers, pre law, theater or the entertainment fields. Students completing this major will find their lives enriched as often motifs and themes of great literature undergird the philosophies of and provide insight into other disciplines.

Course Numbers	Core Courses	Units
ENGLISH 2	Logic and Composition	3
ENGLISH 4	Introduction to Literature	3
	Minimum Core Course Units:	6

Course Numbers	Support Courses	Units
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Select 12 units from this list to complete the total units required.

ENGLISH 10	Chicano Literature	3
ENGLISH 14a-b	Creative Writing	3-6
ENGLISH 15	British Literature I	3
ENGLISH 16	British Literature II	3
ENGLISH 17	Native American Literature	3
ENGLISH 18	Black Literature	3
ENGLISH 19	Women's Literature	3
ENGLISH 30	American Literature I	3
ENGLISH 31	American Literature II	3
ENGLISH 32	The Bible as Literature	3
ENGLISH 44	World Literature I	3
ENGLISH 45	World Literature II	3
ENGLISH 46	Shakespeare	3

Minimum Support Course Units: 12

Total Minimum Units Required: 18

NOTE: A sequence of history courses may be required for the Literature major at a UC.
 Please check with your counselor for details.

Major and Certificate Requirements

Environmental Control Technology

- Associate Degree
- Certificate

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 29 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

This educational program is designed to prepare a person who possesses appropriate aptitudes for entry into employment or advanced study in the several areas of air conditioning. Students should have a broad understanding of the principles of science and mathematics. 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. A student may complete a certificate in one year by following a prescribed course of study.

Course Numbers	Core Courses	Units
First Semester		
ECT 180	Electricity and Controls for HVAC	4
ECT 181	Basic Air Conditioning	10
Second Semester		
ECT 182	Advanced Air Conditioning/Refrigeration Commercial/Domestic	12
I&T 142	Air Conditioning Sheet Metal	3
Minimum Core Course Units:		29

Course Numbers	Support Courses	Units
The following courses may be substituted for required courses. Permission to substitute must be obtained from the program coordinator. These electives are suggested to enhance one's career opportunities.		
ACCT 287	Accounting for Service Businesses	3
CT 270a-b	Residential Wiring	3
DRAFTING 200	Beginning Mechanical Drawing	2
ECT 190a-d	Supervised Practice	1-3
ECT 200	Introduction to Industrial Ammonia Refrigeration	3
ECT 201	Advanced Ammonia Refrigeration	3
ECT 260	Basic Refrigeration	2
ECT 261	Introduction to Air Conditioning & Refrigeration-Commercial/Domestic	2
ECT 262	Heating Systems and Controls	2
ECT 263	Commercial Refrigeration Systems & Controls	2
I&T 143	Advanced Air Conditioning Duct Sheet Metal	3
I&T 160	Introduction to Technical Computer Applications	2
I&T 201	Technical Mathematics	2
I&T 271	Electrical Wiring (Commercial)	3
I&T 273	Electric Motor Controls	2
WELDING 161	Oxy-Acetylene Welding	4
Minimum Support Course Units:		0
Total Minimum Units Required:		29

Major and Certificate Requirements

Equine Science

Associate Degree

Certificate

Degree: Degree not available.

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all course

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Equine Science Program includes classes in many phases of the horse industry. Students will have the opportunity to train their own horses, along with the college owned stock. Many universities offer courses in Equine Science which will lead to degrees in this field. The employment outlook for students who complete this course of study is bright. Careers include horse trainer, breeder, nutritionist, and horse health care technician.

Course Numbers	Core Courses	Units
AG MGT 108a-b	Introduction to Agriculture Computer Applications(first semester)	3
AN SCI 22	Horse Husbandry	3
AN SCI 104	Animal Disease and Sanitation	3
AN SCI 120a	Basic Equitation (1st semester)	2
AN SCI 120b	Basic Equitation (2nd semester)	2
AN SCI 123	Horse Production	2
AN SCI 124a	Colt Breaking	2
AN SCI 124b	Colt Breaking	2
WRK EXP 193	Occupational Cooperative Education/Internship (1st semester)	2
Minimum Core Course Units:		21

Course Numbers	Support Courses	Units
Select 9 additional units from this list to complete the total units required.		
AN SCI 121	Physical Education for the Equestrian	1
AN SCI 227	The Snaffle Bit Futurity	1
AN SCI 228	Bits and Biting	1
AN SCI 229	Equine Racing Industry	1
AG 201	Agricultural Mathematics	3
AG MGT 102	Agricultural Sales	3
AN SCI 271	The Animal Science Industry	3
AG	Other Approved Agriculture Classes With Approval of Department	3
Minimum Support Course Units:		9
Total Minimum Units Required:		30

Major and Certificate Requirements

- Associate Degree
 Certificate

Family Support Officer

Degree: Degree not available.
Certificate: A minimum of 14 units below with a minimum of a "C" grade in all courses. Established Fall, 1998.

CERTIFICATE

This certificate is designed to equip students to establish, enforce and modify family support court orders. This certificate program may be completed within one semester and is part of a legal career ladder offered at COS. Advanced steps on the ladder include legal documents clerk and paralegal. Though the ladder is designed to equip the student to perform increasingly complex job skills, the student may pursue any of the legal career certificates or majors without completing the others.

Students seeking the Family Support Officer Certificate will learn basic computer skills, legal terminology and family support collection procedures including the software used by many California Family Support Divisions. The student must complete the courses or typing certificate under all six areas of competency listed below with a "C" grade or better.

I. Keyboarding Competency:

<u>Course Number</u>	<u>Core Course Title</u>	<u>Units</u>
BUS 160	Beginning Keyboarding	3

or Typing certificate within the last 6 months verifying a typing speed of 45 CWPM -5 min.
 (Contact a local Adult School or a COS keyboarding instructor for an appointment)

II Computer Competency:

<u>Course Number</u>	<u>Core Course Title</u>	<u>Units</u>
COMPUTER 220	Essential Computer Concepts	1
or COMPUTER 140*	Windows	3
or COMPUTER 130*	Introduction to Personal Computers	4
or COMPUTER 5*	Introduction to Computer Information Systems	4

III. Legal Terminology:

<u>Course Number</u>	<u>Core Course Title</u>	<u>Units</u>
PARA 102*	Legal Terminology	1

IV. Law Office Procedure Competency:

<u>Course Number</u>	<u>Core Course Title</u>	<u>Units</u>
PARA 110*	Legal Ethics, Management and Interviewing	3
and WRK EXP 193	Work Experience	1

(Additional work experience units are available under the support classes below)

V. Family Support Collection Procedures:

<u>Course Number</u>	<u>Core Course Title</u>	<u>Units</u>
PARA 240	Family Support Officer Training	4

VI. Suggested Support Classes to complete the 12 unit minimum:

<u>Course Number</u>	<u>Core Course Title</u>	<u>Units</u>
COMPUTER 140*, 130*, or 5*	.....	3 or 4
PARA 101*	Introduction to Paralegalism	3
WRK EXP 194	Work Experience	1 to 3

*Asterisk indicates courses that apply toward Paralegal Degree.

Legal Career Ladder at College of the Sequoias
 One Semester: Law Office Clerk/Receptionist or Family Support Officer
 Two Semesters: Legal Documents Clerk
 Three or four Semesters: Paralegal Degree - Approved by the American Bar Association.

Major and Certificate Requirements

Fashion Design

Associate Degree
 Certificate

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 24 units in courses listed below with a minimum of a "C" grade.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The glamour world of fashion design is a growing industry. California is number two in the nation when it comes to the clothing industry. Millions of people are involved in fashion production through designing, manufacturing, advertising, and marketing. 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.

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, sample maker, production manager, shipping manager, manufacturer's sales representative, dressmaker, and alterationist.

Course Numbers	Core Courses	Units
FASH 76	Textiles	3
FASH 160a-b	Clothing Construction	3
FASH 161a-b	Tailoring	3
FASH 174a	Fashion Illustration	3
FASH 175M1	Fashion Image	1.5
FASH 175M2	Fashion Image	1.5
FASH 177	Introduction to Merchandising	3
SPEECH 1	Fundamentals of Speech	3
Minimum Core Course Units:		21

Course Numbers	Support Courses	Units
Select 3 additional units from this list to complete the total units required.		
CFS 6	Color & Design	3
FASH 12a-b	Costuming	3
FASH 174b	Advanced Fashion Illustration	3
FASH 179	Fashion Origins	3
FASH 162	Creative Pattern Design	3
Minimum Support Course Units:		3
Total Minimum Units Required:		24

Major and Certificate Requirements

- Associate Degree
- Certificate

Fashion Retailing

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 22 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A Certificate and/or A.S. Degree can be awarded under Business or Consumer/Family Studies

CERTIFICATE

The glamour world of fashion design is a growing industry. California is number two in the nation when it comes to the clothing industry. Millions of people are involved in fashion production through designing, manufacturing, advertising, and marketing. 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 in fashion retailing include retail sales, buyer or manager, fashion coordinator, fashion consultant, display specialist, public relations, teacher, plus related opportunities as such fashion journalism, advertising, and manufacturer's sales representative.

Course Numbers	Core Courses	Units
BUS 82	Introduction to Business	3
BUS 170	Introduction to Retail Sales	3
FASH 175	Fashion Image (M-1 & M-2)	3
FASH 177	Introduction to Merchandising	3
FASH 178	Visual Merchandising and Promotion	3
WRK EXP 191	Occupational Cooperative Education	1
Minimum Core Course Units:		16

Course Numbers	Support Courses	Units
Select 6 additional units from this list to complete the total units required.		
BUS 185	Ethics in Business and Industry	3
BUS 174	Marketing Principles	3
BUS 184	Business Communication	3
CFS 6	Color & Design	3
FASH 76	Textiles	3
FASH 174a-b	Fashion Illustration	3+3
FASH 179	Origins of Fashion	3
Minimum Support Course Units:		6
Total Minimum Units Required:		22

Major and Certificate Requirements

Fire Academy

Associate Degree
 Certificate

Certificate: 9 units awarded in the below listed course.
Degree: Degree not available.

CERTIFICATE

Course Description: Manipulative and technical training in basic concepts in fire service organization and theories of fire control, including laws and regulations affecting the fire service personnel, and functions; fire organizations; principles of fire behavior; and the basic consideration in fire strategy and tactics.

Objectives: To provide the student with technical information relating to the functions and responsibilities of the fire service and to develop manipulative skills in fire department operations and use of related equipment, which will provide the knowledge necessary for the student to perform as an entry-level firefighter in any fire department in the State of California.

Methods of Assessment: Short Answer Test, Problem Solving, and Skill Demonstration.

Evaluation: The method of evaluating personal and interpersonal conduct is the daily grade sheet. Students will be given a daily participation grade by the Academy Staff. This grade will be a compilation of the instructor's impression of each cadet's personal conduct, team work, physical capabilities, cooperation and appearance. These grades will be compiled on the same basis as a quiz.

Limitation on Enrollment: Current affiliation with a fire service agency or the ability to provide required protective clothing (turnouts).

Topics:

- Firefighter safety • Fire extinguishers • Fire behavior • S.C.B.A (Self-contained Breathing Apparatus)
- Fire control • Ground ladders • ICS • Wildland (Control 6) • Forcible entry • Hazardous Materials • Fire Prevention
- Hose & Appliances • Streams/Nozzles • Ropes & Knots • Auto extrication • Building construction
- Salvage/Overhaul • Rescue • Protection systems • Emergency Care • Confined space • Ventilation

Course Number	Core Course	Units
Fire Tech 170	Basic Firefighter 1 Academy	9
	Minimum Units	9

Please note: Completion of *only* the Fire Fighter 1 Academy *will not meet the minimum qualifications* for Fire Service agencies for employment. Students should pursue either the 30 unit certificate in Fire Technology or an Associate degree in Fire Technology.

Major and Certificate Requirements

Associate Degree

Certificate

Fire Technology

A.S. Degree: 28 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
(See page 54.)

Certificate: 30 units with a minimum grade of a "C" in all courses.

CERTIFICATE

The Fire Technology program at COS is designed to increase the professional knowledge and skills of people presently employed in fire protection fields as well as prepare others interested in careers related to fire-fighting or safety in private industry, insurance agencies and government. COS offers the in-service firefighter a chance to improve himself professionally to be prepared for promotions to positions of higher responsibility and pay. The student, by completing 30 units of study in this area, including the five core courses, will earn a Certificate of Completion. Or the student can earn an AS degree by completing a combination of the approved Fire Technology and COS graduation requirements.

Fire fighting offers many career opportunities for graduates including positions in municipal fire departments, county departments, fire protection districts, and more than 250 California state fire protection agencies. There are also employment opportunities in forestry agencies, correctional institutions, military bases, and numerous federal agencies. Specialists are also in demand by industry and by such agencies as the Insurance Service Office, Underwriters Laboratory, National Fire Protection Association, and the insurance industry.

Course Numbers	Core Courses	Units
Section A: FIRE PREVENTION (must choose a minimum of 9 units)		
FIRE TEC 157	Fire Prevention Technology	3
FIRE TEC 161	S.F.M. Fire Prevention 1A	2
FIRE TEC 162	S.F.M. Fire Prevention 1B	2
FIRE TEC 163	Fire Protection Equipment & Systems	3
FIRE TEC 164	S.F.M. Fire Prevention 1C	2
FIRE TEC 170	Fire Academy (max. 3 units accepted)	9
FIRE TEC 182	Building Construction for Fire Protection	3
FIRE TEC 252	S.F.M. Fire Investigation 1A	2
FIRE TEC 253	S.F.M. Fire Investigation 1B	2
	Minimum Section A Core Course Units:	9
Section B: FIRE SUPPRESSION (must choose a minimum of 9 units)		
FIRE TEC 154	Fundamentals of Fire Service Operation	3
FIRE TEC 155	Fire Behavior and Combustion	3
FIRE TEC 156	Fire Service Hydraulics	3
FIRE TEC 159	Fire Protection Organization	3
FIRE TEC 170	Fire Academy (max. 9 units accepted)	9
FIRE TEC 173	S.F.M. Fire Command 1A	2
FIRE TEC 174	S.F.M. Fire Command 1B	2
FIRE TEC 182	Building Construction for Fire Protection	3
	Minimum Section B Core Course Units:	9
Section C: HAZARDOUS MATERIALS (optional elective units)		
I&T 130	Hazardous Materials Awareness & Safety	1.5
	Optional Section C Course Units:	1.5
Section D: EMERGENCY MEDICAL CARE (must choose a minimum of 4 units)		
EMT 351B	Emergency Medical Technician B	4
	Minimum Section D Core Course Units:	4

Continued on the next page.

Major and Certificate Requirements

Fire Technology

Associate Degree
 Certificate

Section E: ADDITIONAL RELATED FIRE TECHNOLOGY COURSES

(choose additional units from Fire Technology courses listed above or below to equal 30 or more units to complete the certificate)

FIRE TEC 125	Fund of Fire Apparatus and Equipment	3
FIRE TEC 171	S.F.M. Fire Instructor 1A	2
FIRE TEC 172	S.F.M. Fire Instructor 1B	2
FIRE TEC 177	S.F.M. Fire Management 1	2
FIRE TEC 267	S.F.M. Fire Control 6 (Wildland Fire) .....	.5
	Minimum Section E Core Course Units:	8
	Optional Electives Units:	1.5
	Total Minimum Units Required:	30

Units for classes which are duplicated in the above sections may not be considered in more than one section. Example: If you choose to take FIRE TEC 182 in Section A, you may not use FIRE TEC 182 for the unit requirements in Section B.

A.S. DEGREE

Fire Technicians work within the fire service protecting people from fires, responding to emergencies, and providing social, economic, and environmental benefits to rural and urban citizens. Careers within the fire service include areas such as fire prevention, fire suppression, and management. These careers are formulated within a traditional and often "paramilitary" organization having a definitive chain of command. Some career options include:

- Urban Firefighter • Rural Firefighter • Wildland Firefighter • Hazardous Materials Technician • Fire Apparatus Operator/Driver
- Law/Code Enforcement • Company Officer • Supervisor (Some career options may require classes beyond the Associate Degree level.)

Course Numbers	Core Courses	Units
FIRE TEC 155	Fire Behavior and Combustion	3
FIRE TEC 157	Fire Prevention Technology	3
FIRE TEC 159 ~	Fire Protection Organization (prerequisite course)	3
FIRE TEC 163	Fire Protection Equipment & Systems	3
FIRE TEC 182	Building Construction for Fire Protection	3
	Minimum Core Course Units:	15

Course Numbers	Support Courses	Units
Select 13 additional units from this list to meet minimum qualifications for employment as a firefighter.		
FIRE TEC 170	Basic Firefighter 1 Academy	9
EMT 351b	Emergency Medical Technician B	4
	Minimum Support Course Units:	13
	Total Minimum Units Required:	28

~ Delivered on an "as needed" basis determined by the Tulare/Kings Counties Fire Chiefs Association and the Tulare/Kings Counties Fire Training Officers Association

Note: Due to the fact that fire technology is a small program and courses are taught only in the evening, it is difficult for students to complete all the required courses in a two-year time frame.

Major and Certificate Requirements

Associate Degree

Certificate

Floral Technology

Degree: Degree not available.

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Floral Technology Program is designed for those seeking occupations in the floral industry. The sale of cut flowers, houseplants and dried and silk flowers has increased rapidly in recent years. This is because of increased population and family income, and also because of increased interest in the use of flowers. Many of the required courses will transfer to universities for lower division credit toward degrees in Horticulture.

Course Numbers	Core Courses	Units
AG MGT 108a-b	Introduction to Agriculture Computer Applications(first semester)	3
OH 101	Basic Ornamental Horticulture	3
OH 111	Floral Design	3
OH 112	Sympathy Flowers	3
OH 113	Wedding Flowers	3
OH 119	Interiorscapes	3
OH 123	Silk and Dried Floral Design	3
WRK EXP 193	Occupational Cooperative Education/Internship (1st semester)	3
Minimum Core Course Units:		24

Course Number	Support Courses	Units
Select 6 additional units from this list to complete the total units required.		
AG 201	Agricultural Mathematics	3
AG MGT 102	Agricultural Sales and Service	3
OH 7	Landscape Design	3
OH 104	Nursery Practices	3
OH 105	Plant Propagation	3
OH 106	Landscape Drafting	3
OH 129	Horticulture/Floral Business Management	3
OH 271	Basic Horticulture Skills	3
AG	Other Approved Agriculture Classes With Approval of Department	3
Minimum Support Course Units:		6
Total Minimum Units Required:		30

Major and Certificate Requirements

Food Service 1: Basic Certificate

Associate Degree
 Certificate

Degree: Degree not available.

Certificate: 11 units in courses listed below with a minimum of a "C" grade in all required courses.

CERTIFICATE

Students in this field will find a wide variety of entry-level employment opportunities in the restaurant industry, schools, hospitals, day care centers for the young and the elderly and other commercial food facilities and residential health facilities. The Food Service I - Basic Certificate offers students an introduction to and basic skills for the food service industry.

Course Numbers	Core Courses	Units
NUTR/FOOD 18	Nutrition	3
NUTR/FOOD 101 or NUTR/FOOD 105	Foods Professional Cooking I	3 3
NUTR/FOOD 107	Sanitation and Safety	2
NUTR/FOOD 201	Introduction to Food Service & Nutrition Professions	1
NUTR/FOOD 301	Food Service & Nutrition Skills I	1
NUTR/FOOD 302	Food Service & Nutrition Skills II	1
Total Minimum Units Required:		11

Major and Certificate Requirements

- Associate Degree
 Certificate

Food Service 2: Dietetic Service Supervisor

Degree: Degree not available.
Certificate: 22 units in courses listed below with a minimum of a "C" grade in all courses.

CERTIFICATE

Employment opportunities are available in hospitals, skilled nursing facilities, residential health facilities and other food service institutions.

The Food Service II - Dietetic Service Supervisor Certificate is designed to meet the requirements of the California Department of Health Services to become a qualified Dietetic Service Supervisor.

Course Numbers	Core Courses	Units
NUTR/FOOD 18	Nutrition	3
NUTR/FOOD 105	Professional Cooking I	3
NUTR/FOOD 107	Sanitation and Safety	2
NUTR/FOOD 108	Introduction to Food Service Management	3
NUTR/FOOD 111	Dietetic Service Supervisor Work Experience	2
NUTR/FOOD 113	Dietetics	3
NUTR/FOOD 201	Introduction to Food Service & Nutrition Professions	1
NUTR/FOOD 202	Professionalism in the Workplace	3
NUTR/FOOD 301	Food Service & Nutrition Skills I	1
NUTR/FOOD 302	Food Service & Nutrition Skills II	1
Total Minimum Units Required:		22

Major and Certificate Requirements

Food Service 3: Food Service Management

Associate Degree
Certificate

- A.S. Degree:** 28 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
(See page 54.)
- Certificate:** 28 units in courses listed below with a minimum of a "C" grade in all courses.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

Students in this field will find a wide variety of employment opportunities in the restaurant industry, schools, hospitals, day care centers for the young and the elderly and other commercial food facilities and residential health facilities. An A.S. Degree provides the educational foundation for supervisory level positions in food service.

Course Numbers	Core Courses	Units
NUTR/FOOD 18	Nutrition	3
NUTR/FOOD 101	Foods	3
NUTR/FOOD 105	Professional Cooking I	3
NUTR/FOOD 106	Professional Cooking II	3
NUTR/FOOD 107	Sanitation and Safety	2
NUTR/FOOD 108	Introduction to Food Service Management	3
NUTR/FOOD 201	Introduction to Food Service & Nutrition Professions	1
NUTR/FOOD 202	Professionalism in the Workplace	3
NUTR/FOOD 301	Food Service & Nutrition Skills I	1
NUTR/FOOD 302	Food Service & Nutrition Skills II	1
Minimum Core Course Units:		23

Course Numbers	Support Courses	Units
Select 5 additional units from this list to complete the total units required.		
ACCT 1	Principles of Accounting	4
BUS 82	Introduction to Business	3
BUS 174	Marketing Principles	3
BUS 188	Human Relations in Business	3
BUS 230	Supervision - Management for the First Line Supervisor	3
COMPUTER 5	Introduction to Computer Information Systems	4
COMPUTER 130	Introduction to Personal Computers Operations	4
COMPUTER 136	Word Processing Using WordPerfect	3
COMPUTER 139	Windows and DOS	2
COMPUTER 221a-d	Beginning Word (1.5)	3
COMPUTER 223a-d	Excel (1.5)	3
NUTR/FOOD 109	Food Service Experience (2-3)	2-3
<i>or</i>		
NUTR/FOOD 111	Dietetic Service Supervisor Work Experience	2
Minimum Support Course Units:		5
Total Minimum Units Required:		28

Major and Certificate Requirements

- Associate Degree
 Certificate

Foreign Language Studies

A.A. Degree: 21 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
Certificate: Certificate is not available.
Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

By studying different languages (French, Spanish, and ASL), the student gains an appreciation for various cultures and the ability to communicate in each one. Many career opportunities are available for a student who is multilingual. Business, foreign trade, education, banking, travel, and interpreting are some of the possibilities.

Course Numbers	Core Courses	Units
Select one level four class from this group (3-4 units):		
ASL 4	Advanced American Sign Language	3
or FRENCH 4	Advanced French	4
or SPANISH 4	Advanced Spanish	4
Select one level two class from a language different than the level four (3-4 units):		
ASL 2	Beginning American Sign Language	3
or FRENCH 2	Intermediate French	4
or SPANISH 2	Intermediate Spanish	4
Minimum Core Course Units:		6-8

Course Numbers	Support Courses	Units
Select 13-15 additional units from this list to complete the total units required		
ART 3	Art History	3
ART 4, 5	Pre-Columbian Art	3/3
ASL 1, 2, 3	Beginning through Intermediate Sign Language	3/3/3
ENGLISH 10	Chicano Literature	3
ENGLISH 44	World Literature	3
ENGLISH 45	World Literature	3
FRENCH 1, 2, 3	Elementary and Intermediate French	4/4/4
GEOG 2	World Regional Geography	3
GEOG 3	Cultural Geography	3
HISTORY 4	History of Western Civilization	3
HISTORY 5	History of Western Civilization	3
HISTORY 23	Mexican-American History	3
PHILOS 11	Development of Western Civilization	3
SPANISH 1, 2, 3,	Elementary and Intermediate Spanish	4/4/4
SPANISH 12	Hispanic Literature	3
Minimum Support Course Units:		13-15
Total Minimum Units Required:		21

Major and Certificate Requirements

French

Associate Degree
 Certificate

A.A. Degree: 18 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
 (See page 54.)

Certificate: Certificate is not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

A major in French at COS allows students to gain understanding of a new language and culture, and, by comparison, greater insight and appreciation for their own language and culture. A second language expands students' research capacities and facilitates participation in the international communications systems. Knowing French will enhance students' opportunities to be involved in, or employed by, international businesses, banking systems, journalism, cultural and medical exchanges, government agencies, and in education.

Course Numbers	Core Courses	Units
FRENCH 2	Elementary French	4
FRENCH 3	Intermediate French	4
FRENCH 4	Advanced French	4
Minimum Core Course Units:		12

Course Numbers	Support Courses	Units
Select 3 additional units from this list		
ENGLISH 44	World Literature	3
ENGLISH 45	World Literature	3
HISTORY 4	Western Civilization	3
HISTORY 5	Western Civilization	3
Select 3 additional units from this list to complete the total units required		
ART 2	Art History	3
ART 3	Art History	3
ENGLISH 44	World Literature	3
ENGLISH 45	World Literature	3
FRENCH 1	Beginning French	4
GEOG 2	World Regional Geography	3
GEOG 3	Cultural Geography	3
HISTORY 4	The History of Western Civilization to 1648	3
HISTORY 5	The History of Western Civilization Since 1648	3
PHILOS 5	Ethics	3
PHILOS 10	Development of Western Philosophy 1	3
PHILOS 11	Development of Western Philosophy 2	3
PHILOS 25	Critical Thinking	3
Minimum Support Course Units:		6
Total Minimum Units Required:		18

Major and Certificate Requirements

- Associate Degree
- Certificate

Graphic Design

A.S. Degree: 40 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 28 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

Technological innovations have extended the scope of graphic design far beyond traditional print media. The computer generated images created by graphic designers today are often found in video production and web-page design. The graphic design program is infused with computer applications classes that will direct students' creative endeavors to open many career opportunities in the new and dynamic areas of graphic design. The program also provides a strong computer graphics background for students seeking transfer into related university programs. This is a dynamic program, and classes may frequently change to reflect rapidly advancing technology.

Course Numbers	Core Courses	Units
First Semester		
COMPUTER 140	Windows and DOS	3
COMPUTER 229	Web Page Design and Development	3
DRAFTING 160	Graphic Design	3
Second Semester		
ART 23a-d	Macintosh Basics for Artists and Designers	3
COMPUTER 135	Desktop Publishing	4
DRAFTING 161a-d	Graphic Design Application (4 units per semester/2 semesters)	8
DRAFTING 162	Integrated Graphics	4
Minimum Core Course Units:		28

Course Numbers	Support Courses	Units
Select 9 additional units from this list for A.S. Degree.		
ART 25a-d	Digital Imaging for Artists	3-12
COMPUTER 131	Beginning DOS	3
COMPUTER 132	Advanced DOS	2
COMPUTER 227	Presentation Software	1.5
COMPUTER 228	Introduction to World Wide Web	5
DRAFTING 151	Independent Study (Graphic Design)	1-9
DRAFTING 170a-d	Computer Animation	4-12
DRAFTING 190a-d	Supervised Practice	1-12
DRAFTING 199	Special Topics	1-12
I&T 160	Technical Computer Applications	2
I&T 185	Ethics in Business and Industry	3
LIBRARY 102	Internet Information Resources	1
WRK EXP 191-196	Work Experience	1-6
Minimum Support Course Units for an A.S. Degree:		12
Minimum Support Course Units for a Certificate:		0
Minimum Units Required for an A.S. Degree;		40
Minimum Units Required for a Certificate:		28

Major and Certificate Requirements

Health Education

Associate Degree
 Certificate

- A.A. Degree:** 30 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate:** Certificate not available.
- Transfer:** Preparation requirements for the Health related major vary from university to university. Some of the courses included in this program may fulfill transfer requirements. Students planning to transfer to a four-year school are encouraged to review specific requirements with a counselor and check the major sheet of the university they plan to attend.

A.A. DEGREE

The Health Education major will enable students to develop a background to pursue a career in any of the health fields. The area of Public Health provides employment opportunities in hospitals, rehabilitation centers, geriatric facilities, and sales of medical supplies. In Community Health, employment is available through OSHA, HAZMAT, mosquito abatement, pest control, and environmental control agencies. In the private sector, employment opportunities include sales and promotion, pest control businesses, and environmental control agencies. Students who transfer to a four-year institution may pursue a Bachelors degree in Health Science and a Masters degree in Public Health.

Course Numbers	Core Courses	Units
CHLD DEV 148	Child Health & Safety	3
H&W 1	Personal & Community Hygiene	3
H&W 3	Standard First Aid	3
H&W 60	Concepts in Health & Fitness	3
H&W 119	Nutrition for Fitness	3
NURSING 106	Cultural Diversity in Health	3
PSYCH 1	General Psychology	3
SOC 1	Introduction to Sociology	3
Minimum Core Course Units:		24

Course Numbers	Support Courses	Units
Select 6 additional units from this list to complete the total units required.		
H&W 104	Drugs & Society	3
H&W 7	Sports Health	3
SMED 40	Care and Prevention of Athletic Injuries	3
Minimum Support Course Units:		6
Total Minimum Units Required:		30

Major and Certificate Requirements

Associate Degree

Certificate

Home Health Aide

Certificate: 2 units in the course listed below with a minimum of a "C" grade.

Degree: Degree not available.

CERTIFICATE

This Home Health Aide course is offered for those individuals who have already completed the Certified Nursing Assistance course.

The certificate offered by the Division of Nursing and Health Science is issued by the State of California through the Department of Health Services. The program offered is a single course which prepares the student to receive a certificate permitting practice as a Home Health Aide. Careers include Emergency Medical Technician A, Nursing Assistant, and Home Health Aide. Jobs are plentiful and offered at many sites throughout the college district.

To qualify for the state certificate, the student must pass the course with a grade of "C" or better. Fingerprint clearance by the Department of Justice may be required. Specific information about the criminal record review involved may be obtained from the Nursing and Health Science Division office.

<u>Course Numbers</u>	<u>Core Courses</u>	<u>Units</u>
NURSING 352	Home Health Aide	2
	Total Minimum Units Required:	2

Major and Certificate Requirements

Human Services (Social Work)

Associate Degree

Certificate

A.S. Degree: 36 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
(See page 54.)

Certificate: 36 units with a minimum grade of a "C" in all required courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

Communities today require a variety of social services to provide for the economic and emotional needs of those in difficulty. Agencies on a variety of levels require trained individuals to provide such services. Some of these programs have positions available for those with two years of college instruction. The Human Service program prepares students to work in a community setting or beginning paraprofessional level, to train as aides in welfare eligibility work, mental health and other social service agency positions. Students will be required to spend several hours weekly as community service interns during the two-year program.

Course Numbers	Core Courses	Units
COMPUTER 5 or COMPUTER 130	Introduction to Computer Information Systems Introduction to Personal Computers (4)	4
CFS 186 or BUS 297	Personal Management/Consumer Economics (3) Personal Finance (3)	3
HUM SERV 120	Introduction to Social Welfare	3
HUM SERV 121	Interviewing	4
HUM SERV 122	Introduction of Human Services	3
HUM SERV 228	Alcoholism, Intervention, Treatment, and Recovery	2
HUM SERV 229	Physical & Psychological Aspects of Drug Use	2
PSYCH 1	General Psychology	3
PSYCH 10	Human Sexuality	3
SOC 26	Marriage and Family Life	3
WRK EXP 193	Human Services Work Experience/Internship	2
WRK EXP 194	Human Services Work Experience/Internship	2
WRK EXP 195	Human Services Work Experience/Internship	2
Minimum Core Course Units:		36

Course Numbers	Support Courses	Units
Select additional units from this list for further study.		
WRK EXP 196	Human Services Work Experience/Internship	1-4
Minimum Support Course Units:		0
Total Minimum Units Required:		36

Major and Certificate Requirements

Associate Degree

Certificate

Humanities

A A. Degree: 30 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
(See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The program in Humanities provides an interdisciplinary approach to education. The major surveys relationships among philosophy, literature, music, architecture, sculpture and painting. Students explore interrelationships among arts and ideas. This solid grounding in the liberal arts helps graduates who plan to continue in professional careers such as teaching, library, museum or curatorial work.

Select 30 units from among the following disciplines. Select transfer courses from at least four different disciplines listed below :

- Anthropology
- Art
- Ethnic Studies
- History
- Literature
- Music
- Philosophy
- Theater Arts
- Advanced level Foreign Language

Total Minimum Units Required: 30

Major and Certificate Requirements

Industrial Maintenance Technology

Associate Degree
 Certificate

- A.S. Degree:** Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate:** **Option A:** 27 units in courses listed below with a minimum of a "C" grade in all courses.
Option B: 31 units in courses listed below with a minimum of a "C" grade in all courses. (EVENING)
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

MAINTENANCE TECHNICIAN, OPTION A

Maintenance Technician, Option A, is a one-year (two semester) 25 hours per week training program to provide students with job entry skills. The two degree applicable thirteen unit classes will provide students with over 850 hours of skill training in the areas of electricity, electronics, welding, machining, refrigeration, hydraulics, pneumatics, programmable logic controllers, motor control, and other maintenance areas. The class is designed for entry level training and requires no previous experience. A certificate is awarded upon successful completion of two semesters.

Course Numbers	Core Courses	Units
First Semester		
I&T 100	Industrial Maintenance Technology, Option A	13
Second Semester		
I&T 101	Industrial Maintenance Technology, Option A	13
I&T 278	Industrial Preventative Maintenance	1
	Minimum Core Course Units	27

Course Numbers	Support Courses	Units
I&T 160	Introduction to Technical Computer Applications	2
I&T 185	Ethics in Business and Industry	3
I&T 201	Technical Mathematics	4
I&T 233	Job Search Skills	2
Speech 104	Interpersonal Communications	3
	Minimum Support Course Units	0
	Total Minimum Units Required:	27

MAINTENANCE TECHNICIAN, OPTION B (EVENING)

Maintenance Technician, Option B, is a two-year (four semester) 6 hours per week training program to provide students with job entry skills. The degree applicable, six unit classes will provide students with skill training in the areas of electricity, electronics, welding, machining, refrigeration, hydraulics, pneumatics, programmable logic controllers, motor control, and other maintenance areas. Work experience is required to meet the requirements for a certificate.

Course Numbers	Core Courses	Units
I&T 105a-d	Industrial Maintenance Technology (4 units/4 semesters)	16
I&T 193-196	Work Experience	14
I&T 278	Industrial Preventative Maintenance	1
	Minimum Core Course Units	31

Course Numbers	Support Courses	Units
I&T 271	Electrical Wiring	2
I&T 272	Electrical Wiring, Industrial	2
I&T 273	Electrical Motor Controls	2
I&T 274	Electrical Motor Controls-Prog Controllers	2
I&T 275	Solid State Fundamentals for Electricians	2
	Minimum Support Course Units	0
	Total Minimum Units Required:	31

Major and Certificate Requirements

- Associate Degree
 Certificate

Journalism

A.A. Degree: 18 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

This major is designed for students who plan to pursue a higher degree in media communications as well as those who plan to secure employment with area newspapers, public relations firms, advertising firms, or non-profit agencies. It is also appropriate for those seeking jobs requiring photography or computer skills, and for those interested in law, criminal justice, graphic arts, and web page design. This major offers several options. Language skills are heavily emphasized.

Course Numbers	Core Courses	Units
JOURNAL 1	Beginning Newswriting	3
JOURNAL 7	Mass Communication	3
JOURNAL 103a-d	Newspaper Production (1st semester)	4
ENGLISH 2	Logic and Composition	3
Minimum Core Course Units:		13

Course Numbers	Support Courses	Units
Select 2-4 additional units from this list:		
JOURNAL 103a-d	Newspaper Production (2nd semester)	4
JOURNAL 104a	Editorial Board	2
JOURNAL 110a	Photojournalism	3

Select 3-4 additional units from this list to complete the total units required:

ART 113	Macintosh Basics Art/Design	2
CINEMA ARTS 31	Motion Picture Appreciation	2
CINEMA ARTS 32	Motion Picture Appreciation	2
COMPUTER 229	Web Page Development	3
DRAFTING 160	Graphic Design	3
DRAFTING 161a-d	Graphic Design Application	4
JOURNAL 103a-d	Newspaper Production (3rd & 4th semesters)	4/4
JOURNAL 104a-d	Editorial Board	2/2/2/2
JOURNAL 110a-d	Photojournalism	3/3/3/3
POLI SCI 25	Constitutional Law	3
SPEECH 1	Public Speaking	3
SPEECH 5	Argumentation and Debate	3
SPEECH 4	Interpersonal Communication	3
THR ART 101a-d	Introduction to TV Production	3

Minimum Support Course Units: 5

Total Minimum Units Required: 18

Major and Certificate Requirements

Landscape Design

Associate Degree
 Certificate

Degree: Degree not available.
Certificate: 30 units in courses listed below with a minimum of a "C" grade in all required courses.
Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The major/certificate in Landscape Design prepares students to successfully design and plan landscapes and gardens using current standards. Students will be able to design landscapes using new water and environmental requirements. Included in the certificate program are courses that develop skills in selecting, grouping, and placing plant materials into various landscape styles, situations and themes. Career opportunities include golf course design, park design, and public area designs. Most universities offering agriculture programs also offer degrees in related Horticulture areas.

Course Numbers	Core Courses	Units
OH 2	Plant Identification 1	3
OH 3	Plant Identification 2	3
OH 7	Landscape Design	3
OH 106	Landscape Drafting	3
OH 108	Landscape Construction	3
OH 109	Landscape Maintenance	3
OH 118	Xeriscape	3
WRK EXP 193	Occupational Cooperate Education/Internship (1st semester)	3
Minimum Core Course Units:		24

Course Numbers	Support Courses	Units
Select 6 additional units from this list to complete the total units required.		
AG MGT 108a-b	Introduction to Agriculture Computer Applications(first semester)	3
OH 101	Basic Ornamental Horticulture	3
OH 105	Plant Propagation	3
OH 119	Interiorscapes	3
OH 120	Diseases of Ornamentals	3
OH 121	Plant Combinationation Theory	3
OH 271	Basic Horticulture Skills	3
AG	Other Approved Agriculture Classes With Approval of Department.....	3
Minimum Core Course Units:		6
Total Minimum Units Required:		30

Major and Certificate Requirements

Landscape Management

Associate Degree

Certificate

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The major/certificate in Landscape Management develops skill and knowledge in the management of residential, commercial, and industrial landscapes and gardens. The field of landscape management is one of the fastest growing occupations in the nation and particularly in the San Joaquin Valley. This program prepares students for work as landscape contractors, turf managers, grounds maintenance managers, pest control operators, and landscape water auditors. Heavy emphasis is placed on plant culture and care, disease and pest management, turf culture and water management. Many of the required courses will transfer to universities.

Course Numbers	Core Courses	Units
AG MECH 209a-d	Small Engines and Equipment	3
OH 2	Plant Identification 1	3
OH 3	Plant Identification 2	3
OH 109	Landscape Maintenance	3
OH 110	Turfgrass Management	3
OH 117	Sprinkler Systems	3
OH 122	Pests of Ornamentals	3
WRK EXP 193	Occupational Cooperative Education/Internship (1st semester)	3
Minimum Core Course Units:		24

Course Numbers	Support Courses	Units
Select 6 additional units from this list to complete the total units required.		
AG 103a-c	Applied Agricultural Practicum	3
AG 201	Agricultural Mathematics	3
AG MGT 108a-b	Introduction to Agriculture Computer Applications(first semester)	3
OH 101	Basic Ornamental Horticulture	3
OH 105	Plant Propagation	3
OH 115	Xeriscape	3
OH 118	Interiorscapes	3
OH 120	Diseases of Ornamentals	3
OH 121	Plant Combination Theory	3
OH 271	Basic Horticulture Skills	3
AG	Other Approved Agriculture Classes With Approval of Department	3
Minimum Support Course Units:		6
Total Minimum Units Required:		30

Major and Certificate Requirements

Law Office Clerk/Receptionist

Associate Degree
 Certificate

Degree: Degree not available.
Certificate: 14 units in courses listed below with a minimum of a "C" grade in all courses and completion of a typing certificate. Established Fall, 1997.

CERTIFICATE

A certificate designed to train the student to perform basic entry-level functions in a law office. This certificate program is designed to be completed within one semester and is the first part of a three step legal career ladder offered at COS. Though the three step ladder is designed to train the student to perform increasingly complex job skills, the student may pursue any of the certificate majors without completing the others. Students seeking the Law Office Clerk/Receptionist Certificate will learn basic computer skills, legal terminology and office procedures including filing and service of process. **This certificate has a minimum of 14 units and students must complete the required typing certificate and courses under each of the five areas of competency listed below with a "C" or better.**

I. Keyboarding Competency:

Typing certificate within the last 6 months verifying a typing speed of 45 CWPM -5 min.
 (Contact a local Adult School or a COS keyboarding instructor for an appointment)

II. Computer Competency:

Course Number	Course Title	Units
COMPUTER 140*	Windows and DOS	3
or COMPUTER 136	WordPerfect.....	3
or COMPUTER 221 + 222	Beginning and Advanced Word	3
or COMPUTER 5*	Introduction to Computer Information Systems.....	4
or COMPUTER 130*	Introduction to Personal Computers	4

III. Legal Terminology /Procedure:

Course Number	Course Title	Units
PARA 101*	Introduction to Paralegalism	3
and PARA 102*	Legal Terminology	1

IV. Law Office Procedure Competency:

Course Number	Course Title	Units
PARA 110*	Legal Ethics, Management & Interviewing	3
and Work Experience 193	Work Experience	1-4

V. Writing Competency:

Course Number	Course Title	Units
BUSINESS 293	Business English	3
or BUSINESS 184	Business Communications	3
or ENGLISH 251	Fundamentals of College Writing.....	3
or ENGLISH 1*	College Reading/Composition	3

* Asterisk indicates courses that apply toward the Paralegal Degree.

Legal Career Ladder at College of the Sequoias

One Semester: Law Office Clerk/Receptionist or Family Support Officer

Two Semesters: Legal Documents Clerk

Three or four Semesters: Paralegal Degree - Approved by the American Bar Association.

Major and Certificate Requirements

- Associate Degree
- Certificate

Legal Documents Clerk

Degree: Degree not available.
Certificate: 17 units with a minimum of a "C" grade in all courses and completion of a typing certificate. Established Fall, 1997.

CERTIFICATE

This certificate program is designed to be completed within two semesters enabling students to obtain entry level document processing positions in a law office. Students will learn the process of civil or family law litigation, discovery and how to draft basic legal documents with the use of Judicial Council computerized forms. This certificate program is part of a three step legal career ladder offered at COS. The other three steps on the ladder include step one, Law Office Clerk or Family Support Officer; and step three, Paralegal. Students can complete all of the requirements necessary for the step one, Law Office Clerk/Receptionist Certificate, while also working on step two, Legal Documents Clerk Certificate. Though the three step ladder is designed to train the student to perform increasingly complex job skills, the student may pursue any of the four career certificates or majors without completing the others. This certificate requires meeting each of the six following areas of competency with a "C" grade or better and a **minimum of 17 units of credit.**

I. Keyboarding Competency: (First Semester)

Typing certificate within the last 6 months verifying a typing speed of 45 CWPM -5 min.
 (Contact a local Adult School or a COS keyboarding instructor for an appointment)

II. Computer Competency: (One course either semester)

Course Number	Course Title	Units
COMPUTER 140*	Windows & DOS	3
or COMPUTER 136	WordPerfect.....	3
or COMPUTER 221 + 222	Beginning & Advanced Word	3
or COMPUTER 5*	Intro to Computer Infor. System	4
or COMPUTER 130*	Intro to Personal Computers	4

III. Legal Terminology /Procedure: (First Semester)

Course Number	Course Title	Units
PARA 101*	Introduction to Paralegalism	3

IV. Writing Competency: (First Semester)

Course Number	Course Title	Units
BUSINESS 293	Business English	3
or BUSINESS 184	Business Communications	3
or ENGLISH 251	Fundamentals of College Writing	3
or ENGLISH 1*	College Reading/Composition	3

V. Law Office Procedure Competency: (Second Semester)

Course Number	Course Title	Units
PARA 110*	Legal Ethics, Management and Interviewing	3
and Work Experience 193	Work Experience	1-4

VI. Litigation Competency: (Second Semester)

Course Number	Course Title	Units
PARA 103*	Civil Procedures I	4
or PARA 237*	Family Law	3
(PARA 101 is a corequisite for both courses)		

*Asterisk indicates courses that apply toward the Paralegal Degree

Legal Career Ladder at College of the Sequoias
 One Semester: Law Office Clerk/Receptionist or Family Support Officer
 Two Semesters: Legal Documents Clerk
 Three or four Semesters: Paralegal Degree - Approved by the American Bar Association.

Major and Certificate Requirements

Liberal Arts

Associate Degree

Certificate

A.A. Degree: CSU or IGETC General Education pattern, and the balance of 60 units in electives numbered 0-199.
Certificate: Certificate not available.

A.A. DEGREE

The liberal Arts degree is available to students who have not yet identified a major field of study and who plan to transfer to a four-year college or university to pursue a Baccalaureate Degree. Requirements include completion of either the CSU or the IGETC transfer General Education pattern, and the balance of 60 units in electives numbered 0-199.

Major and Certificate Requirements

- Associate Degree
- Certificate

Library Technician

Degree: Degree not available.
Certificate: 17 units in the courses listed below with a minimum grade of "C" in all courses.

Today, more than ever, libraries provide a variety of resources to help people of all ages read, learn and connect with resources that are needed for school, work or personal fulfillment. Libraries have become the navigator for exploration in the world of information. Electronic catalogs, on-line databases, and networks provide almost unlimited access to this world.

The COS Library Technician Certificate leads to employment in school, college or public libraries as library technicians, library media clerks, or library media specialist.

Course Numbers	Support Courses	Units
LIBR 201	Introduction to Libraries	2
LIBR 202	Collection Development	2
LIBR 203	Technical Services	3
LIBR 204	School/Children's Services	3
LIBR 205	Library Media Services	2
LIBR 206	Public Service/Reference	3
Minimum Core Course Units		15

Course Numbers	Support Courses	Units
Select 2 to 5 units from the following courses.		
LIBR 101	Library Research Strategies	1
LIBR 102	Internet Information Resources	1
WRK EX 193	Library Work Experience	1
WRK EX 194	Library Work Experience	2
WRK EX 195	Library Work Experience	3
Minimum Support Course Units		2
Total Minimum Units Required:		17

Major and Certificate Requirements

Marketing Management

Associate Degree
 Certificate

Degree: Degree not available.
Certificate: The 30-unit program below with a minimum of a "C" grade in all courses.

CERTIFICATE

Marketing is a wide-ranging concept, involving much more than advertising and promoting products. Students in this program study project development, distribution, pricing, research and sales. Any job in retailing, wholesale or service industries requires a working knowledge of marketing. Approximately one out of three jobs is directly or closely related to marketing.

Entry level jobs exist with manufacturers, service firms, wholesalers, retailers, advertising agencies, consulting firms, and private and public nonprofit organizations such as hospitals. Students seeking a General Business Associate Degree may take the Marketing certificate requirements plus General Education and graduation requirements.

Course Numbers	Core Courses	Units
BUS 18	Business Law	4
BUS 82	Introduction to Business	3
BUS 174	Marketing Principles	3
BUS 184	Business Communications	3
BUS 185	Ethics in Business and Industry	3
BUS 188	Human Relations in Business	3
COMPUTER 5 or COMPUTER 130	Introduction to Computer Information Systems (4)	4
	Introduction to Personal Computers (4)	
COMPUTER 227	Presentation Software for Business	1.5
COMPUTER 228	Introduction to the World Wide Web	1
	Minimum Core Course Units:	25

Course Numbers	Support Courses	Units
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Select 5 additional units from this list to complete the total units required.

ACCT 101	Essentials of Accounting	5
BUS 170	Introduction to Sales	3
BUS 231	Starting a New Business	3
COMPUTER 140	Windows & DOS	3
COMPUTER 229	Web Page Design & Development	3
WRK EXP 193	Occupational Cooperative Education/Internship (1st semester)	1-4
WRK EXP 194	Occupational Cooperative Education/Internship (2nd semester)	1-4
WRK EXP 195	Occupational Cooperative Education/Internship (3rd semester)	1-4
WRK EXP 196	Occupational Cooperative Education/Internship (4th semester)	1-4
	Minimum Support Course Units:	5
	Total Minimum Units Required:	30

Major and Certificate Requirements

- Associate Degree
- Certificate

Mathematics

A.S. Degree: 26 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

The focus of the required core and support courses for this A.S. Degree are relevant to a student who will transfer to a four-year institution in the field of mathematics and/or a related science. It is not realistic to think that a student that has completed these degree requirements will terminate his or her education with the A.S. Degree to seek employment.

Course Numbers	Core Courses	Units
MATH 75	Calculus 1	5
MATH 76	Calculus 2	5
MATH 77	Calculus 3	3
MATH 15 or 16	Computer Science 1	3
Minimum Core Course Units:		16

Course Numbers	Support Courses	Units
Select 10 additional units from this list to complete the total units required.		
MATH 18	Computer Science 2	3
MATH 80	Linear Algebra	3
MATH 81	Differential Equations	5
PHYSICS 5	Physics for Scientists and Engineers 1	4
Minimum Support Course Units:		10
Total Minimum Units Required:		26

Major and Certificate Requirements

Mathematics - Science

 Associate Degree

 Certificate

A.S. Degree: 21 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

The Science and Math major provides the student with some of the introductory courses that make up the lower division requirements of a variety of science majors. In order to develop marketable skills in one of the disciplines of science, the student must plan on the lower division requirements for a discipline-specific major such as physics, chemistry or biology, and then complete the upper division courses for that major at a four-year campus. There are very few entry level jobs for individuals with only these courses.

Course Numbers	Core Courses	Units
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Select **two** of the following science sequences from this list to complete the total units required

BIOLOGY 1	Principles of Biology and	5/5
BIOLOGY 2	General Botany	
CHEMISTRY 1	General Chemistry and	5/5
CHEMISTRY 2	General Chemistry	
PHYSICS 20	General Physics 1 and	4/4
PHYSICS 21	General Physics 2	
PHYSICS 5	Physics For Scientists and Engineers 1 and	4/4/4
PHYSICS 6	Physics For Scientists and Engineers 2 and	
PHYSICS 7	Physics For Scientists and Engineers 3	
Minimum Core Course Units:		18-20

Course Numbers	Support Courses	Units
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Select **one** course from this list to complete the total units required

MATH 61	Survey of Calculus	3
or MATH 75	Calculus With Analytic Geometry 1	5
or MATH 75* & 76	Calculus With Analytic Geometry 1 & 2	5/5
Minimum Support Course Units:		3-10
Total Minimum Units Required:		21

Major and Certificate Requirements

- Associate Degree
- Certificate

Music: Instrumental

A.A Degree: 31 units listed below with a minimum grade of "C" plus General Education and graduation requirements for a total of 60 units. The AA degree in music will not be awarded until the student has met these requirements to the satisfaction of the music faculty. Please see the music faculty member in the Instrumental Emphasis area for more details. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The Associate of Arts degree in Music provides the Music major with the necessary course work and skills to transfer to upper division institutions or prepare for jobs as studio musicians, independent instrumental/vocal instructors, accompanists, church organists and choral directors.

The Music program offers four areas of emphasis: instrumental, vocal, keyboard, and theory/composition. All music majors must perform on the student recital both semesters, scheduled in May and December.

All music majors are advised to enroll in a piano class upon entrance into the department. Organ class may be substituted. Students with previous piano training may challenge the requirement with a member of the keyboard faculty. Failure to satisfy the challenge exam will result in continued registration in a piano/organ class. For a Bachelor of Arts degree from a four-year institution, each student majoring in music must enroll in a piano class until the departmental piano proficiency examination is passed or the Bachelor of Arts degree in Music will be denied.

Course Numbers	Core Courses	Units
MUSIC 4***	Comprehensive Musicianship I	5
MUSIC 5	Comprehensive Musicianship II	5
MUSIC 6	Comprehensive Musicianship III	5
MUSIC 7	Comprehensive Musicianship IV	5
MUSIC 20	Piano I	1
	Performance in the student recital both semesters (May/December)	
	Minimum Core Course Units:	21

Course Numbers	Support Courses	Units
Select 8 additional units from this list to complete the total units required.		
MUSIC 54a-d****	Symphony Orchestra	2-8
MUSIC 74a-d****	Concert Band	1-4
Select 2 additional units from this list to complete the total units required.		
MUSIC 10	Appreciation of Music History and Literature	3
MUSIC 11	Appreciation of Jazz	3
MUSIC 13	Music of the World	3
MUSIC ---	Additional performance class	
	Minimum Support Course Units:	10
	Total Minimum Units Required:	31

***Music 4 has an advisory of Music 1.
 ****Enrollment in Music 54 and 74 require a departmental audition.

Major and Certificate Requirements

Music: Keyboard

Associate Degree

Certificate

A.A. Degree: 30 units listed below with a minimum grade of **C plus** General Education and graduation requirements for a total of 60 units. The AA degree in music will not be awarded until the student has met these requirements to the satisfaction of the music faculty. Please see the music faculty member in the Keyboard Emphasis area for more details. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The Associate of Arts degree in Music provides the music major with the necessary course work and skills to transfer to upper division institutions or prepare for job opportunities such as studio musicians, independent instrumental/vocal instructors, accompanists, church organists and choral directors.

The Music Program offers four areas of emphasis: instrumental, vocal, keyboard, and theory/composition. All music majors must perform on the student recital both semesters, scheduled in May and December.

All music majors are advised to enroll in a piano class upon entrance into the department. Organ class may be substituted. Students with previous piano training may challenge the requirement with a member of the keyboard faculty. Failure to satisfy the challenge exam will result in continued registration in a piano/organ class. For a Bachelor of Arts degree from a four-year institution, each student majoring in music must enroll in a piano class until the departmental piano proficiency examination is passed or the Bachelor of Arts degree in Music will be denied.

Course Numbers	Core Courses	Units
MUSIC 4***	Comprehensive Musicianship I	5
MUSIC 5	Comprehensive Musicianship II	5
MUSIC 6	Comprehensive Musicianship III	5
MUSIC 7	Comprehensive Musicianship IV	5
MUSIC 20	Piano I	
	Performance in the student recital both semesters (May/December)	1
	Minimum Core Course Units:	21

Course Numbers	Support Courses	Units
Select 6 additional units from this list to complete the total units required.		
MUSIC 10	Appreciation of Music History and Literature	3
MUSIC 11	Appreciation of Jazz	3
MUSIC 13	Music of the World	3

Select 3 additional units from this list to complete the total units required		
MUSIC 22a***	Intermediate/Advanced Piano (1)	1
or MUSIC 23a	Organ I (1)	
MUSIC 22b	Intermediate/Advanced Piano (1)	1
or MUSIC 23b	Organ II (1)	
MUSIC 22c	Intermediate/Adv Piano (1)	1
or MUSIC 23c	Organ III (1)	
MUSIC 22d	Intermediate/Advanced Piano (1)	1
or MUSIC 23d	Organ IV (1)	
	MUSIC---Two ensemble performance classes: Choir, Band, etc.	2-4
	Minimum Support Course Units:	9
	Total Minimum Units Required:	30

*** Music 4 has an advisory of Music 1 and Music 22a has an advisory of Music 21.

Major and Certificate Requirements

- Associate Degree
- Certificate

Music: Theory/Composition

A.A. Degree: 30 units listed below with a minimum grade of "C" plus General Education and graduation requirements for a total of 60 units. The AA degree in music will not be awarded until the student has met these requirements to the satisfaction of the music faculty. Please see the music faculty member in the Theory/Composition Emphasis area for more details. (See page 54.)

Certificate Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The Associate of Arts degree in Music provides the music major with the necessary course work and skills to transfer to upper division institutions or prepare for job opportunities such as studio musicians, independent instrumental/vocal instructors, accompanists, church organists and choral directors.

The Music Program offers four areas of emphasis: instrumental, vocal, keyboard, and theory/composition. All music majors must perform on the student recital both semesters, scheduled in May and December.

All music majors are advised to enroll in a piano class upon entrance into the department. Organ class may be substituted. Students with previous piano training may challenge the requirement with a member of the keyboard faculty. Failure to satisfy the challenge exam will result in continued registration in a piano/organ class. For a Bachelor of Arts degree from a four-year institution, each student majoring in music must enroll in a piano class until the departmental piano proficiency examination is passed or the Bachelor of Arts degree in Music will be denied.

Course Numbers	Core Courses	Units
MUSIC 4***	Comprehensive Musicianship I	5
MUSIC 5	Comprehensive Musicianship II	5
MUSIC 6	Comprehensive Musicianship III	5
MUSIC 7	Comprehensive Musicianship IV	5
MUSIC 20	Piano I	1
	Performance in the student recital both semesters (May/December)	
	Minimum Core Course Units:	21

Course Numbers	Support Courses	Units
Select 9 additional units from this list to complete the total units required.		
MUSIC 21	Piano II	1
MUSIC--	Four music performance courses within a single area: Instrumental, vocal, or keyboard.....	8
	Student should have a major instrument/voice, especially at the lower division level	
	Minimum Support Course Units:	9
	Total Minimum Units Required:	30

***Music 4 has an advisory of Music 1.

Major and Certificate Requirements

Music: Vocal

Associate Degree
 Certificate

- A.A Degree:** 31 units listed below with a minimum grade of "C" plus General Education and graduation requirements for a total of 60 units. The AA degree in music will not be awarded until the student has met these requirements to the satisfaction of the music faculty. Please see the music faculty member in the Vocal Emphasis area for more details. (See page 54.)
- Certificate:** Certificate not available.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The Associate of Arts degree in Music provides the music major with the necessary course work and skills to transfer to upper division institutions or prepare for jobs as studio musicians, independent instrumental/vocal instructors, accompanists, church organists and choral directors. The Music Program offers four areas of emphasis: instrumental, vocal, keyboard, and theory/composition. All music majors must perform on the student recital both semesters, scheduled in May and December.

All Music majors are advised to enroll in a piano class upon entrance into the department. Organ class may be substituted. Students with previous piano training may challenge the requirement with a member of the keyboard faculty. Failure to satisfy the challenge exam will result in continued registration in a piano/organ class. For a Bachelor of Arts degree from a four-year institution, each student majoring in music must enroll in a piano class until the departmental piano proficiency examination is passed or the Bachelor of Arts degree in Music will be denied.

Course Numbers	Core Courses	Units
MUSIC 4***	Comprehensive Musicianship I	5
MUSIC 5	Comprehensive Musicianship II	5
MUSIC 6	Comprehensive Musicianship III	5
MUSIC 7	Comprehensive Musicianship IV	5
MUSIC 20	Piano I	1
	Performance in the student recital both semesters (May/December)	
Minimum Core Course Units:		21

Course Numbers	Support Courses	Units
Select 10 additional units from this list to complete the total units required.		
MUSIC 36a-d ****	Chamber Singers	8
MUSIC 34a-d ****	Concert Choir	8
MUSIC 31a ***	Intermediate Voice (1st semester)	1
MUSIC 31b	Intermediate Voice (2nd semester)	1
Minimum Support Course Units:		10
Total Minimum Units Required:		31

***Music 4 has an advisory of Music 1 and Music 31a has an advisory of Music 30.
 ****Enrollment in Music 36 requires a departmental audition.

Major and Certificate Requirements

Associate Degree

Certificate

Nursery Management

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

Nursery Management 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 three large greenhouses, growing and maintaining house or 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 estimator and nurseryman. Many of these required courses will transfer to universities.

Course Numbers	Core Courses	Units
AG MGT 108a-b	Introduction to Agriculture Computer Applications(first semester)	3
OH 2	Plant Identification 1	3
OH 3	Plant Identification 2	3
OH 7	Landscape Design	3
OH 101	Basic Ornamental Horticulture	3
OH 104	Nursery Practices	3
OH 105	Plant Propagation	3
OH 109	Landscape Maintenance	3
WRK EXP 193	Occupational Cooperative Education/Internship	3
Minimum Core Course Units:		27

Course Numbers	Support Courses	Units
Select 3 additional units from this list to complete the total units required.		
AG 3	Entomology	3
AG 4	Soils	3
AG MGT 103	Introduction to Agricultural Management	3
AG MGT 104	Agricultural Accounting	3
AG MGT 108a-b	Introduction to Agriculture Computer Applications (2nd semester)	3
OH 106	Landscape Drafting	3
OH 118	Xeriscape	3
OH 119	Interiorscape	3
OH 129	Horticulture/Floral Business Management	3
OH 271	Basic Horticulture Skills	3
AG	Other Approved Agriculture Classes With Approval of Department	3
Minimum Support Course Units:		3
Total Minimum Units Required:		30

Major and Certificate Requirements

Ornamental Horticulture

Associate Degree
 Certificate

- A.S. Degree:** Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate:** 30 units in courses listed below with a minimum of a "C" grade in all courses.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

Ornamental Horticulture Technology continues to be one of California's fastest growing industries. Students learn to grow and arrange plants and flowers, preparing for work in nursery production and operations, landscape drafting, design and construction, and plant care and maintenance. Many former COS students are now employed in ornamental horticulture and related agriculture fields as floral designers, cut flower growers, plant propagators, retail florists, production foremen, plant inspectors, pest control operators, and garden writers. Many of the courses will transfer to universities.

Course Numbers	Core Courses	Units
OH 2	Plant Identification 1	3
OH 3	Plant Identification 2	3
OH 101	Basic Ornamental Horticulture	3
OH 104	Nursery Practices	3
OH 106	Landscape Drafting	3
OH 109	Landscape Maintenance	3
WRK EXP 193	Occupational Cooperative Education/Internship (1st semester)	3
Minimum Core Course Units:		21

Course Numbers	Support Courses	Units
Select 9 additional units from this list to complete the total units required.		
AG 3	Economic Entomology	3
AG 4	Soils	3
AG 103a-c	Applied Agriculture Practicum	3
AG MGT 108a-b	Introduction to Agriculture Computer Applications(first semester)	3
OH 7	Landscape Design	3
OH 105	Plant Propagation	3
OH 108	Landscape Construction	3
OH 110	Turfgrass Management	3
OH 111	Floral Design	3
OH 113	Wedding Flowers	3
OH 118	Xeriscape	3
OH 119	Interiorscapes	3
OH 121	Plant Combination Theory	3
OH 123	Silk and Dried Floral Design	3
OH 271	Basic Horticulture Skills	3
AG *	Other Approved Agriculture Classes With Approval of Department	3
Minimum Support Course Units:		9
Total Minimum Units Required:		30

Major and Certificate Requirements

- Associate Degree
- Certificate

P.O.S.T. Basic Police Academy

Degree: Degree not available.
Certificate: The 12 unit program below with a minimum of a "C" grade in all courses.

CERTIFICATE

The Basic Police Academy is designed for anyone who desires a career as a law enforcement officer. Peace 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, patrol procedures, investigation, traffic enforcement, cultural awareness, and criminal law. Students must be in good physical health, over 18 years of age, and have no felony record.

Course Numbers	Core Courses	Units
AJ 200	Basic Police Academy Prerequisite: High school graduate, no felony convictions, passing score on P.O.S.T. reading and writing test	12
Total Minimum Units Required (1,600 hrs):		12

- All applicants must:**
- Be in good physical health
 - Be certified by a doctor to participate in a strenuous physical activity program
 - Have a high school diploma or GED
 - Be over 18 years of age
 - Have no felony criminal record
 - Have a valid California drivers license
 - Pass the academy pretest

A material fee is charged in addition to normal college fees.

Interested persons should contact the law enforcement training department, (559) 730-3752, prior to registering for the course and for details of the application process.

Prerequisite: Passing score on the P.O.S.T. 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's Standards and Training.

Major and Certificate Requirements

Paralegal

Associate Degree
 Certificate

Approved by the American Bar Association. Established Fall, 1984

The Associate of Science degree in Paralegalism requires at least 60 units of satisfactory work, only four of which can be "Internship". Thirty units must be selected from the core and support paralegal courses listed below. Students must select 18 General Education units and 2 computer courses from the courses listed on the following page. A legal assistant or paralegal is a person qualified by education, training or work experience who is employed or retained by a lawyer, law office, corporation, governmental agency or other entity and who performs specifically delegated substantive legal work for which a lawyer is responsible. A paralegal is **not an attorney** and therefore cannot give legal advice or represent another in court except under very limited circumstances provided by law.

Admissions Requirement: A student admitted to the program must have a high school diploma or have passed an equivalency examination.

Certificate: 37 units. Available **only** with approved general education coursework listed on the next page (18 units plus computer requirement courses) or a Bachelor's Degree plus 30 units of Paralegal courses and required computer courses.

A.S. Degree: Thirty paralegal units listed below, plus the computer requirements and general education courses approved for the paralegal major as well as other graduation requirements such as Math, U. S. History and Health and Wellness courses for a total of 60 units.

Transfer: This is **NOT** a four-year transfer program or a Pre-law program. Preparation requirements for a law major vary from university to university. Some of the courses included in this program may fulfill transfer requirements. Students planning to transfer to a four-year school are encouraged to review specific requirements with a counselor and check the major sheet of the university they plan to attend.

Course Numbers	Core Courses	Units
PARA 101	Introduction to Paralegalism (F/S)*	3
PARA 102	Legal Terminology (F/S)*	1
PARA 103	Civil Procedure I (F/S)*	4
PARA 104	Civil Procedure II (S)*	3
PARA 105	Legal Research & Writing I (F/S)*	4
PARA 110	Legal Ethics, Management, and Interviewing (F/S)*	3
PARA 193	Internship (F/S)*	2
PARA 237	Family Law (F/S)*	3
Minimum Core Course Units:		23

**(F/S means the course is offered in the Fall and Spring)*

Course Numbers	Support Courses	Units
PARA 206	Advances in Legal Research	3
PARA 232	Wills, Trusts and Elder Law	2
PARA 233	Probate Procedures	2
PARA 235	Bankruptcy	1
PARA 236	Administrative Law	3
PARA 160	Criminal Law Terms in Spanish	1
PARA 194	Internship	1,2
PARA 299	Topics in the Law	1,2,3
ACCT 1, 101, or 287	Accounting	4,5,3
BUS 18	Business Law	4
(Only one Administration of Justice course is allowed)		
AJ 112	Criminal Law II	3
or AJ 115	Criminal Evidence	3
Minimum Support Course Units:		7

Course Numbers	Computer Course Requirements (two courses) one from each list.	Units
COMPUTER 5, 130	Intro to Computer Info Systems/Intro to Personal Computer Operations	4
COMPUTER 136, 140, 222	Word Process Using Word Perfect, Windows and DOS, Adv Word	3,3,1.5
Minimum Computer Course Requirement Units:		7

Continued on the next page.

Major and Certificate Requirements

Associate Degree

Certificate

Paralegal

Approved by the American Bar Association. Established Fall, 1984

GENERAL EDUCATION FOR PARALEGAL MAJOR

Take one class from each area (18 units plus required computer courses) :

- Area A1:** English 1, 1H; CLEP English Examination (Test 1) Note: Grade of "C" or higher required in area A1
Area A2: English 2; Journalism 7; Political Science 7, 25; Philosophy 20, 25; Speech 1, 4, 5, 7, 8
Area B: Any science course on the CSU or IGETC GE Pattern; CLEP Natural Science Examination (Test III)
Area C: Anthropology 4, 5, 5H; Art 1, 2, 3; English 4, 10, 15-46; Music 10, 11, 13; Foreign Language (1-199); Philosophy (1-199); Sign Language (1-199) Spanish 12; CLEP Humanities Examination (Test IV)
Area D: AJ11, 114; Anthropology 10; Political Science 5, 5H, 7, 25; Psychology 39; Economics 1, 2; Geography 2, 3; Sociology 2 History 4, 5, 5H, 17, 18, 18H, 19, 20, 23, 31; CLEP Social Science/History Examination (Test II)
Area E: Any additional 3 units from any of the above listed courses OR Psychology 1, Soc. 1, 126.

SUGGESTED SCHEDULE for Paralegal Students Seeking an AS Degree in Paralegalism - 60 Units	
First Semester	Second Semester
PARA 101 3	PARA 103 4
PARA 102 1	PARA 110 3
COMPUTER 5, 130 4	Area B (Science) 4
Area A1 (Eng 1) 3	Area C (Philos 20,25) 3
Area A2 (Speech) 3	COMPUTER 140,136 or 221 and 223 3
<p>Please note: Third semester Paralegal courses cannot be taken until computer courses and at least 18 units of General Education credit are completed or concurrently taken with the advanced courses.</p>	
Third Semester	Fourth Semester
PARA 105 4	PARA 104 3
PARA 193 1	PARA 237 3
Paralegal Elective 3 (Admin Law or Wills/Probate)	Paralegal Internship 1
GE & Grad Requirements 6	Paralegal Electives 3
	GE or Elective 6

SUGGESTED SCHEDULE for Paralegal Students Who Have already Completed GE Courses - 37 Units		
First Semester	Second Semester	Summer or Third Semester
PARA 101 PARA 102 PARA 103 PARA 110 COMPUTER 5, 130	PARA 104 PARA 105 PARA 193 (Internship) PARA 237 COMPUTER 140, 136, or 221 and 222	PARA Electives (4 Units) PARA 194 (Internship)
Total 15	Total 15	Total 7
<p>The Paralegal Department requires students take their English, computer, and General Education courses early in their college schedule. Research and Writing should not be taken until English 1 is completed. Paralegal internship should not be taken until students have enrolled in PARA 103; it should be taken the last two semesters before graduation.</p> <p>The General Education areas A-E must be satisfied from courses listed on the Paralegal General Education Pattern found on this page. The courses in parentheses are recommendations only.</p>		

Major and Certificate Requirements

Physical Education

Associate Degree
 Certificate

- A.A. Degree:** 30 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate:** Certificate not available.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The Physical Education major may find employment in recreational programs or transfer to a four-year institution to become qualified as an instructor or to pursue a career in athletic coaching.

Course Numbers	Core Courses	Units
BIOLOGY 30	Anatomy	4
BIOLOGY 31	Physiology	4
H&W 1	Personal & Community Hygiene	3
H&W 3	Standard First Aid	3
H&W 60/SMED 60	Concepts of Health & Fitness	3
H&W 119	Nutrition for Fitness (3)	3
<i>or</i>		
NUTR/FOOD 119	Nutrition for Fitness (3)	
PE 36	Introduction to Physical Education	3
PE Activity	Minimum of 4 units in PE Activity	4
Minimum Core Course Units:		27

Course Numbers	Support Courses	Units
Select additional 3 units from this list to complete the total units required.		
H&W 7	Sports Health	3
PE 37	Introduction to Coaching	2
PE 188	Peak Performance for Athletes	3
SMED 40	Care & Prevention of Athletic Injuries	3
Minimum Support Course Units:		3
Total Minimum Units Required:		30

Major and Certificate Requirements

- Associate Degree
 Certificate

Physical Science

A.S. Degree: 30 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: Certificate not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

The Physical Science major provides the student with a full range of lower division courses in the physical sciences. This major will not replace lower division coursework necessary for discipline-specific majors in chemistry, geology or physics. Employment opportunities would be limited to employers requiring entry level skills in the applied physics/sciences.

Course Numbers	Core Courses	Units
CHEMISTRY 1	General Chemistry	5
CHEMISTRY 2	General Chemistry	5
PHYSICS 20 and PHYSICS 21	General Physics 1	4
	General Physics 2	4
or PHYSICS 5	Physics for Scientists and Engineers 1	4
PHYSICS 6	Physics for Scientists and Engineers 2	4
PHYSICS 7	Physics for Scientists and Engineers 3	4
GEOL 1	Physical Geology	4
MATH 75	Calculus with Analytic Geometry 1	5
or MATH 21	Introduction to Statistics	4
Minimum Core Course Units:		26
Course Numbers	Support Courses	Units
Select additional 4 units from this list to complete the total units required.		
METEOR 1	Elementary Meteorology	3
MATH 76	Calculus with Analytic Geometry 2	5
GEOL 12	Environmental Geology	3
BIOLOGY 1	Principles of Biology	5
or BIOLOGY 20	Frontiers in Biology	4
GEOG 1	Physical Geography	3
Minimum Support Courses		4
Total Minimum Units Required		30

Major and Certificate Requirements

Physics

Associate Degree
 Certificate

A.S. Degree: 33 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
 (See page 54.)

Certificate: Certificate is not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

The primary benefit of this degree to the student would be the ability to transfer to a four-year institution with less difficulty. This type of focus is generally an enhancement to a student's transcript and resume. Employment opportunities with the A.S. Degree would be limited to employers requiring apprentice level skills in applied mathematics and/or physics.

Course Numbers	Core Courses	Units
MATH 75	Calculus With Analytic Geometry 1	5
MATH 76	Calculus With Analytic Geometry 2	5
MATH 77	Calculus With Analytical Geometry 3	3
MATH 80	Linear Algebra	3
MATH 81	Differential Equations	5
PHYSICS 5	Physics For Scientists and Engineers 1	4
PHYSICS 6	Physics For Scientists and Engineers 2	4
PHYSICS 7	Physics For Scientists and Engineers 3	4
Total Minimum Units Required:		33

Major and Certificate Requirements

Associate Degree

Certificate

Plant Science and Industry

A.S. Degree: Certificate courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

One of the greatest challenges to mankind is to produce enough food and fiber for future generations. To meet this need, students in the Plant Science Program study 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, and cultivation of crops. Good job opportunities exist in farming, irrigation and crop production as well as related industries such as equipment sales, fertilizers, plant protection and consulting. Major universities offering agriculture programs offer a variety of courses that will lead to degrees in Plant Science.

Course Numbers	Core Courses	Units
AG 3	Economic Entomology	3
AG 4	Soils	3
AG 105	Fertilizer	3
AG MECH 108	Irrigation	3
AG MGT 108a-b	Introduction to Agriculture Computer Applications(first semester)	3
PLNT SCI 1	Introduction to Plant Science	3
WRK EXP 193	Occupational Cooperative Education/Internship (1st semester)	3
Minimum Core Course Units:		21

Course Numbers	Support Courses	Units
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Select 9 additional units from this list to complete the total units required.

AG 200	Orientation to Agriculture	1
AG MECH 104	Farm Machinery	
PLNT SCI 12	Fruit and Nut Tree Production	3
PLNT SCI 102	Row Crops	3
PLNT SCI 103	Cereals and Oil Crops	3
PLNT SCI 104	Forage Crops	3
PLNT SCI 105	Weeds and Weed Control	3
PLNT SCI 111	Citrus Production	3
PLNT SCI 113	Grape and Vine Production	3
PLNT SCI 271	Plant Science Industry	3
AG	Other Approved Agriculture Classes With Approval of Department	3
Minimum Support Course Units:		9
Total Minimum Units Required:		30

Major and Certificate Requirements

Plumbing

Associate Degree

Certificate

Degree: Degree not available.
Certificate: 9 units in courses listed below with a minimum of a "C" grade in all courses.

CERTIFICATE

This certificate program is designed to prepare students to enter the plumbing installation and repair industry.

Course Numbers	Core Courses	Units
CT 205a-b	Plumbing	3+3
CT 175	Building Inspection and Supervision - Plumbing	3
Minimum Core Course Units:		9

Course Numbers	Support Courses	Units
Select additional units from this list. for further study:		
I&T 201	Technical Mathematics	4
Minimum Support Course Units:		0
Total Minimum Units Required:		9

Major and Certificate Requirements

- Associate Degree
- Certificate

Public Safety Training

Degree: Degree not available.
Certificate: The 24 unit program below with a minimum of a "C" grade in all required courses.

CERTIFICATE

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 Public Safety Training program equips students with the skills and knowledge to enter this highly rewarding field. The Public Safety Training program provides in-service 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. To qualify for a Public Safety Training Certificate, the student must complete the Basic Police Academy (AJ200), plus a minimum of 12 units from any combination of the other courses listed below.

Course Numbers	Core Courses	Units
AJ 200	Basic Police Academy	12
	Minimum Core Course Units:	12

Course Numbers	Support Courses	Units
Select 12 units from this list to complete the total units required.		
AJ 203	Traffic Collision Investigation	3
AJ 204	Supervisory Techniques	5
AJ 213	Interviewing/Interrogation Techniques	1.5
AJ 214	Arrest and Control Techniques	1
AJ 215	Drug Symptomatology and Enforcement	1
AJ 299	Topics Courses	1-10
AJ 313a-b	Academy Preparation	3
	Minimum Support Course Units:	12
	Total Minimum Units Required:	24

Major and Certificate Requirements

Real Estate

Associate Degree
 Certificate

Degree: Degree not available.
Certificate: 29 units in courses listed below with a minimum of a "C" grade in all courses.

CERTIFICATE

The COS Real Estate program gives introductory training which is helpful in studying for the state Real Estate license, and it provides continuing education for people seeking license renewal.

Real Estate is an exciting and energetic business with large amounts of money at stake. Real estate people 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.

Course Numbers	Core Courses	Units
BUS 18	Business Law	4
BUS 185	Ethics in Business and Industry	3
COMPUTER 130	Introduction to Personal Computers	4
COMPUTER 229	Web Page Design & Development	3
REAL ES 140	Real Estate Principles	3
REAL ES 141	Real Estate Finance (3)	3
or REAL ES 142	Real Estate Law (3)	
REAL ES 143	Real Estate Economics	3
REAL ES 144	Real Estate Practice	3
REAL ES 145	Real Estate Appraisal	3
Minimum Core Course Units:		29

Course Numbers	Support Courses	Units
Select additional units from this list for further study.		
ACCT 101	Essentials of Accounting	5
or ACCT 1	Principles of Accounting	4
BUS 231	Starting a New Business	3
COMPUTER 140	Windows and DOS	3
COMPUTER 228	Introduction to the World Wide Web	1
SPEECH 1	Fundamentals of Public Speaking	3
Minimum Support Course Units:		0
Total Minimum Units Required:		29

Major and Certificate Requirements

- Associate Degree
- Certificate

Registered Nursing

A.S. Degree: 87 units with a minimum "C" grade plus General Education and graduation requirements. (See page 54.)

Certificate: Certificate is not available.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.S. DEGREE

The Registered Nursing major at College of the Sequoias is a two-year program leading to an A.S. Degree. The program is approved by the California Board of Registered Nursing, and successful completion of the requirements qualifies the graduate to sit for the National Licensing Examination for Registered Nurses. The successful R.N. may begin employment in a wide variety of entry level positions. Jobs are readily available and there is full employment for those who choose to work. Graduates of this program are readily accepted at university-level baccalaureate programs and enter into upper division nursing courses.

High school preparation for Nursing should include a good foundation in math, science and English. Job shadowing is available at local hospitals. A career ladder exists: C.N.A. to L.V.N. to R.N. to B.S.N. to M.S.N. Starting pay is \$18 to \$20 per hour for three to four 12 hour shifts per week.

Admission Requirements: 1. Graduation from an accredited high school or GED equivalency. 2. GPA of 2.5 or higher over all on all required pre-nursing courses. 3. All qualified candidates may apply. 4. Residents of the COS district receive priority. Residents of adjacent districts, which do not have a Registered Nursing Program, have second priority.

Prerequisites (must be taken before program admission):

Course Numbers	Core Courses	Units
BIOLOGY 30	Human Anatomy	4
BIOLOGY 31	Human Physiology^	4
BIOLOGY 40	General Microbiology #	4
CHEMISTRY 20	General Chemistry@	4
ENGLISH 1	College Reading and Composition***	3
NUTR/FOOD 18	Nutrition	3
PSYCH 1	General Psychology*	3
SOC 1	Introduction to Sociology*	3
or ANTHRO 10	Cultural Anthropology (3)*	3
or NURSING 106	Cultural Anthropology (3)	3
SPEECH 1	Fundamentals of Public Speaking*	3
or SPEECH 4	Interpersonal Communications (3)*	3
or SPEECH 8	Group Communication (3)	3
Minimum Prerequisite Units:		31

Other courses required for graduation (A.S. Degree):

	GENERAL EDUCATION HUMANITIES COURSE (COS Area C)	3
	The People of the United States*	3
or HIST 17	The People of the United States (3)*	3
or HIST 18		
Additional Required Units for A.S. Degree:		6

Nursing courses--taken after admission into the program:

NURSING 101	Registered Nursing Theory 1	11
NURSING 102	Registered Nursing Theory 2	12
NURSING 103	Registered Nursing Theory 3	12
NURSING 104	Registered Nursing Theory 4	13
NURSING 122	Foundations for Nursing Practice	2
Minimum Required Course Units:		50
Total minimum Units Required:		87

* Recommended Preparation: ENGLISH 251 or equivalent college level course with "C" or better, or eligibility for ENGLISH 1 per COS Placement Test.

*** Prerequisite: COS Placement Test or ENGLISH 251

@ MATH 200 or 205 with "C" or eligibility for MATH 230 per COS Placement test. Recommended preparation: CHEM 253 or equivalent college course with "C" or better, or high school chemistry with "C" or better in both semesters.

^ Prerequisite: BIOLOGY 30 and CHEMISTRY 1 or 20 or equivalent course with "C" or better.

Prerequisite: CHEMISTRY 20 or equivalent course with "C" or better and any college level biology course.

Major and Certificate Requirements

Sequoia Theatre Conservatory Theatre Arts / Acting

Letter of Completion

Please Note: This is not an approved major or certificate program which has been approved by the College of the Sequoias Community College District. Interested students should contact the Fine Arts Department.

Letter of Completion: Completion of either one of the two, forty-eight unit programs below with a minimum grade of "C" in all courses.

LETTER OF COMPLETION

The Sequoia Theatre Conservatory is designed for the career-oriented theatre student. This **two year** training program is rigorous and disciplined, with a curriculum established to meet the vocational demands of the profession. Students are encouraged to develop their own unique personal resources in an atmosphere of mutual trust and support. The conservatory environment places a premium on personal discipline, high standards, and a positive attitude.

The Conservatory program offers two emphases, each with its own set of requirements: acting and technical. The **Acting emphasis** includes a wide range of acting styles and techniques such as Musical Theatre and Shakespeare. The **Technical emphasis** includes experience in all aspects of theatre work behind the scenes such as lighting design and set construction. In addition, flexible enrollment options will prepare transfer-track students for successful entry into the most prestigious university theatre programs in the country.

Course Numbers	Core Courses	Units
THR ART 1	Introduction to the Theatre	3
THR ART 2	Fundamentals of Acting I	3
THR ART 3	Fundamentals of Acting 2	3
THR ART 4	Intermediate Acting 1	3
THR ART 5	Intermediate Acting 2	3
THR ART 6	Shakespeare	3
THR ART 130a-b	Stage Movement/Stage Combat	4
THR ART 140a-b	Musical Theatre	3
THR ART 180a-d	Communication Strategies (4 semesters/2 units each)	8
Minimum Core Course Units:		33

Course Numbers	Support Courses	Units
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Select 15 additional units from this list to complete the total units required.

DANCE 6a-d	Choreography	3
MUSIC 30a-d	Voice	3
THR ART 8	History of Theater and Drama	3
THR ART 12a-b	Costuming	4
THR ART 13a-b	Beginning Stagecraft	3
THR ART 15a-b	Beginning Stage Lighting (2 nd semester)	3
THR ART 17a-b	Make-up	3
THR ART 19a-b	Theatre Arts Workshop I (2 semesters/2 units each)	4
THR ART 21a-b	Theatre Arts Workshop II (2 semesters/2 units each)	4
THR ART 101a-d	Introduction to TV Production	2
THR ART 20a-b	Musical Theatre Performance	4
THR ART 202	Acting for the Camera	1

Minimum Support Course Units: 15

Total Minimum Units Required: 48

Major and Certificate Requirements

Letter of Completion

Sequoia Theatre Conservatory Theatre Theatre Arts/Technician

Please Note: This is not an approved major or certificate program which has been approved by the College of the Sequoias Community College District. Interested students should contact the Fine Arts Department.

Letter of Completion: Completion of either one of the two, forty-eight unit programs below with a minimum grade of "C" in all courses.

LETTER OF COMPLETION

The Sequoia Theatre Conservatory is designed for the career-oriented theatre student. This **two year** training program is rigorous and disciplined, with a curriculum established to meet the vocational demands of the profession. Students are encouraged to develop their own unique personal resources in an atmosphere of mutual trust and support. The conservatory environment places a premium on personal discipline, high standards, and a positive attitude.

The Conservatory Program offers two emphases, each with its own set of requirements: acting and technical. The **Acting emphasis** includes a wide range of acting styles and techniques such as Musical Theatre and Shakespeare. The **Technical emphasis** includes experience in all aspects of theatre work behind the scenes such as lighting design and set construction. In addition, flexible enrollment options will prepare transfer-track students for successful entry into the most prestigious university Theatre programs in the country.

Course Numbers	Core Courses	Units
THR ART 1	Introduction to the Theatre	3
THR ART 2	Fundamentals of Acting I	3
THR ART 12a-b	Costuming	3
THR ART 13a-b	Stagecraft	3
THR ART 14a-b	Intermediate Stagecraft	3
THR ART 15a-b	Beginning Stage Lighting	3
THR ART 16a-b	Intermediate Stage Lighting	3
THR ART 17a-b	Make-up	3
THR ART 19a-b	Theatre Arts Workshop I (2 semesters/2 units each)	4
THR ART 21a-b	Theatre Arts Workshop II (2 semesters/2 units each)	4
Minimum Core Course Units:		32

Course Numbers	Support Courses	Units
Select 16 additional units from this list to complete the total units required.		
ART 2	Art History	3
ART 3	Art History	3
THR ART 3	Fundamentals of Acting 2	3
THR ART 6	Shakespeare	3
THR ART 20a-b	Musical Theatre Performance	2
THR ART 101a-d	Introduction to TV Production	4
THR ART 130a-b	Stage Movement/Stage Combat	4
THR ART 140a-b	Musical Theatre	3
Minimum Support Course Units:		16
Total Minimum Units Required:		48

Major and Certificate Requirements

Sign Language (American)

Associate Degree
 Certificate

- A.A. Degree:** 18 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
- Certificate :** Certificate not available.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The major in American Sign language offers you the opportunity to learn a new language in an entirely different mode of communication. ASL is the primary language of Deaf people in the United States. Other languages use voice, hearing and writing, but ASL will develop your ability to communicate effectively in the visual mode. Moreover, you will be exposed to the richness of the unique culture of Deaf people. When you learn a second language, you also gain a greater insight into your own language and culture. You will discover possible new career opportunities, enrich your travel experiences and enhance your own visual communication techniques.

Core requirements are designed to provide basic knowledge and understanding of the Language and culture of Deaf people, including their history and social mores. These courses provide a solid basic foundation for entry into any career in a Deaf-related field. COS students have gone on to careers as interpreters, basic ASL instructors, counselors, audiologists, speech pathologists, community service personnel and other related careers.

Course Numbers	Core Courses	Units
ASL 2	Beginning ASL.....	3
ASL 3	Intermediate ASL	3
ASL 4	Advanced ASL.....	3
Minimum Core Course Units:		9

Course Numbers	Support Courses	Units
Select 9 units from this list to complete the total units required.		
ASL 110a-d	Beginning Interpreting	4
ASL 1	Beginning ASL 1	3
SPEECH 9	Intercultural Communication	3
THR ART 2	Fundamentals of Acting 1	3
SOC 1	Introduction to Sociology	3
SOC 2	Sociology of Social Problems	3
HIST 23	Mexican-American History	3
SPANISH 1	Elementary Spanish	4
SPANISH 2	Elementary Spanish	4
SPANISH 3	Intermediate Spanish	4
FRENCH 1,2, or 3	French	4-12
ENGLISH 17	Native American Literature	3
Minimum Support Course Units:		9
Total Minimum Units Required:		18

Major and Certificate Requirements

- Associate Degree
- Certificate

Social Sciences

A.A. Degree: 30 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
Certificate: Certificate not available.
Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

A multidiscipline curriculum for students with a wide range of interests in human problems, the Social Sciences major is designed to provide a liberal arts education and supply insights and tools for a variety of employment opportunities in government services, business, commerce, and industry. It may also lead to advanced degrees and elementary and secondary teaching qualifications in the area of social studies or any of the social sciences.

Course Numbers	Core Courses	Units
GEOG 2	World Regional Geography	3
HIST 17 or HIST 18	The People of the United States (3) The People of the United States (3)	3
PHILOS 25	Critical Thinking	3
PSYCH 1	General Psychology	3
POLI SCI 5	Federal, State, and Local Government	3
SOC 1	Introduction to Sociology	3
Minimum Core Course Units:		18

Course Numbers	Support Courses	Units
Select 12 units from this list to complete the total units required.		
AJ 11	Introduction to Criminal Justice	3
ANTHRO 10	Cultural Anthropology	3
ECON 1	Principles of Economics	3
ETHN 3	Mexican American Studies	3
ETHN 101	Black American Studies	3
ETHN 102	American Indian Studies	3
GEOG 3	Cultural Geography	3
HIST 17 or HIST 18	The People of the United States The People of the United States (3)	3
PHILOS 5	Ethics	3
Minimum Support Course Units:		12
Total Minimum Units Required:		30

Major and Certificate Requirements

Spanish

Associate Degree
 Certificate

- A.A. Degree:** 21 units with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units.
 (See page 54.)
- Certificate:** Certificate not available.
- Transfer Students:** Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

Many career opportunities are available for students who are proficient in both English and Spanish. After completing an A.A. degree in Spanish, a student is able to engage in conversation, understand the essential points of a narrative or explanation, read and comprehend some literature and most factual information addressed to a general reader, and write summaries, descriptions or events, and correspondence. Business, finance, education, health care, social services, travel, and interpreting are some of the fields that a student could enter with a Spanish major.

Course Numbers	Core Courses	Units
HISTORY 23	Mexican-American History	3
SPANISH 4	Advanced Spanish	4
SPANISH 12	Hispanic Literature	3
Minimum Core Course Units:		10

Course Numbers	Support Courses	Units
Select 11 additional units from this list to complete the total units required.		
ART 4, 5	Pro-Columbian Art	3/3
ENGLISH 10	Chicano Literature	3
GEOG 3	Cultural Geography	3
SPANISH 1	Elementary Spanish	4
SPANISH 2	Elementary Spanish	4
SPANISH 3	Intermediate Spanish	4
SPANISH 22	Spanish for Bilingual Students	4
SPANISH 23	Spanish for Bilingual Students	4
Minimum Support Course Units:		11
Total Minimum Units Required:		21

Major and Certificate Requirements

- Associate Degree
 Certificate

Speech Communication

A.A. Degree: 30 units in courses with a minimum "C" grade plus General Education and graduation requirements for a total of 60 units. (See page 54.)
Certificate: Certificate not available.
Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

A.A. DEGREE

The Speech Program is designed to prepare students to continue studies toward a B.A. degree in Speech Communication or enter the work force with competent communication skills. Employment opportunities can be very diverse from College Professor in Speech Communications, to Public Relations or Personnel Officer within a corporation, to a career in Mass Communications such as radio and television.

Course Numbers	Core Courses	Units
SPEECH 1	Fundamentals of Public Speaking	3
SPEECH 3	Oral Interpretation	3
SPEECH 4	Interpersonal Communication	3
SPEECH 5	Argumentation and Debate	3
SPEECH 7	Persuasion	3
SPEECH 8	Group Communication	3
SPEECH 9	Intercultural Communication	3
Minimum Core Course Units:		21

Course Numbers	Support Courses	Units
Select 9 additional units from this list to complete the total units required.		
PHILOS 10	Development of Western Philosophy	3
PHILOS 25	Critical Thinking	3
MATH 21	Introduction to Statistics	4
IND ST 151	Independent Study in Speech Communication	2-3
Minimum Support Course Units:		9
Total Minimum Units Required:		30

Major and Certificate Requirements

Veterinary Technician

Associate Degree
 Certificate

Degree: Degree not available.

Certificate: The 17-unit program below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

The Veterinary Technician program gives students entry level training in animal health care. Instruction is offered in nutrition, diseases and sanitation, small animal care, as well as basic livestock handling. Upon completion of the coursework and after completing state licensing criteria, students may find employment as veterinary technicians and veterinary assistants. Many of the courses are transferable to universities for degrees in Animal Science areas.

Course Numbers	Course Names	Units
AN SCI 104	Animal Diseases and Sanitation	3
AN SCI 109	Basic Skill/Veterinary Assistant	3
AN SCI 113	Farm Animal Biology	3
AN SCI 115	Infectious Diseases of Small Animals	3
AN SCI 116	Veterinary Office Practices	3
AG 193	Occupational Cooperative Education/Internship (1-3) [1st semester]	2
Minimum Core Course Units:		17

Course Numbers	Support Courses	Units
Select additional units from this list for further study.		
BIOLOGY 22	Animal Biology/Lab	3
AN SCI 110	Swine Production	3
AN SCI 111	Beef Production	3
AN SCI 112	Sheep Production	3
AN SCI 123	Horse Production	3
Minimum Support Course Units:		0
Total Minimum Units Required:		17

Major and Certificate Requirements

Associate Degree

Certificate

Waste Water Treatment

Degree: Degree not available.

Certificate: 6 units in courses listed below with a minimum of a "C" grade in all courses.

CERTIFICATE

This certificate program is designed to prepare students for the California State Certification Exams in Water Treatment Operator and Wastewater Treatment Plant Operator.

Course Numbers	Core Courses	Units
I&T 220	Water Treatment Fundamentals	3
I&T 221	Wastewater Treatment Fundamentals	3
	Total Minimum Units Required:	6

For more information, please contact:

Dave Bockman, Dean, Vocational Education, (559) 730-3808, or

Dick Shirk, Division Chairperson for Industry and Technology, (559) 730-3777.

Major and Certificate Requirements

Welding Technology

Associate Degree
 Certificate

A.S. Degree: The 30-unit program below with a minimum of a "C" grade in all required courses, plus General Education and graduation requirements for a total of 60 units. (See page 54.)

Certificate: 30 units in courses listed below with a minimum of a "C" grade in all courses.

Transfer Students: Transfer preparation varies from university to university. Meet with a COS counselor to review requirements.

CERTIFICATE

California is one of the leading employers of welders in the United States. Qualified welders are needed both in our valley agriculture industries and in our urban industries. The Welding Technology Certificate can lead to careers in food processing installation, fabrication in a variety of industries, construction and repair. Many of the courses are transferable to universities for advanced degrees in the Industrial Technology majors.

Course Numbers	Core Courses	Units
IMPORTANT:		
Courses should be taken in the order listed:		
WELDING 161	Oxy-Acetylene Welding	4
WELDING 162	Shielded Metal Arc Welding	4
WELDING 171	Advanced Welding I	4
WELDING 172	Advanced Welding II	4
AG 193	Occupational Cooperative Education/Internship	1
DRAFTING 200	Beginning Mechanical Drawing	2
WELDING 181	Blueprint Reading/Ferrous Metal	3
Minimum Core Course Units:		22

Course Numbers	Support Courses	Units
Select 8 additional units from this list to complete the total units required.		
AG 193	Occupational Cooperative Education/Internship	1-3
AG MECH 110a-d	Project Construction	2
AG MECH 212	Welding Power Source & App	1
I&T 160	Technical Computer Applications	3
SPEECH 4	Interpersonal Communications	3
WELDING 105a-c	Basic Metalcraft Welding & Forging	3
WELDING 173	Stainless Steel Welding	2
WELDING 274	Aluminum Welding	2
Minimum Support Course Units:		8
Total Minimum Units Required:		30

Major and Certificate Requirements

- Associate Degree
 Certificate

Word Processing

Degree: Degree not available.
Certificate: The 30-unit program below with a minimum of a "C" grade in all courses.

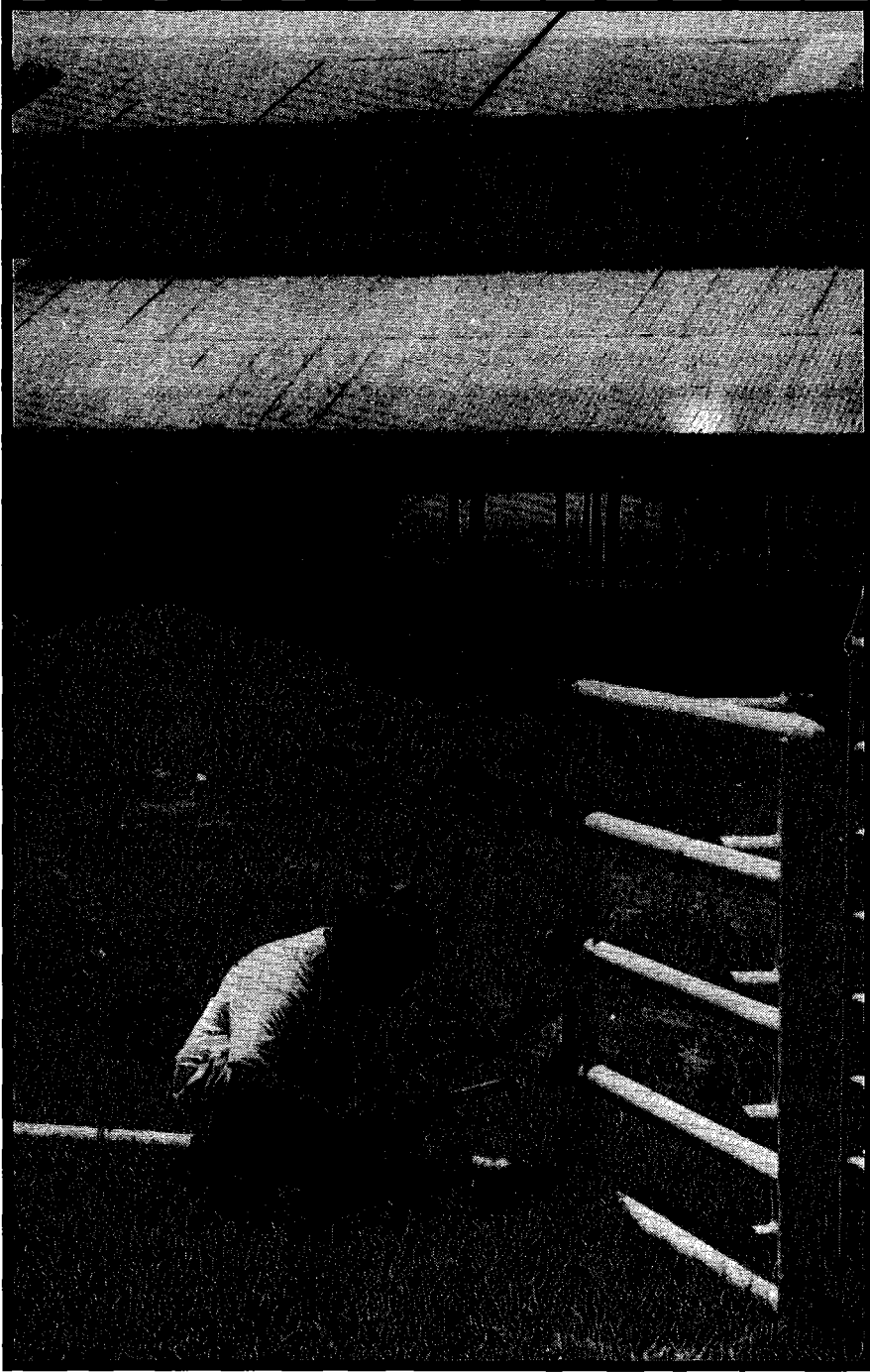
CERTIFICATE

The Word Processing Program teaches concepts, procedures, and terminology, as well as the skills necessary to operate computers. To be prepared for the information explosion in today's high tech office, the employee must be prepared to produce high-quality written documents. By becoming computer proficient, students completing this program will be able to produce the written documents needed to make requests, explain, illustrate, and convince. In addition, students will know where and how to access information.

The high performance employer today needs word processors for the information explosion occurring in the global business arena. Word processing specialists find jobs in the automated office utilizing personal computers and various software packages such as word processing, database management, desktop publishing, and spreadsheets.

Course Numbers	Core Courses	Units
BUS 161	Intermediate Keyboarding-----	3
BUS 184	Business Communications-----	3
BUS 293	Business English-----	3
COMPUTER 135	Desktop Publishing for Business-----	4
COMPUTER 136	Word Processing Using WordPerfect-----	3
COMPUTER 140	Windows & DOS (3)-----	1.5-3
or COMPUTER 221a-d	Beginning Word (1.5)-----	
COMPUTER 222a-d	Advanced Word-----	1.5
COMPUTER 227	Presentation Software for Business-----	1.5
COMPUTER 228	Introduction to the World Wide Web-----	1
Minimum Core Course Units:-----		21.5-23

Course Numbers	Support Courses	Units
Select additional units from this list to complete the total units required.		
BUS 82	Introduction to Business-----	3
BUS 188	Human Relations in Business-----	3
BUS 260	Career Dressing-----	1
BUS 268	Electronic Calculating-----	2
COMPUTER 220	Essential Computer Concepts-----	1
COMPUTER 229	Web Page Design and Development-----	3
Minimum Support Course Units:-----		9
Total Minimum Units Required:-----		30



"A scholar who cherishes the love of comfort is not fit to be deemed a scholar."

Lao Tzu

Course Numbering System at College of the Sequoias

The Course Numbering System provided below is to help our students easily identify those courses needed as they plan their studies at College of the Sequoias.

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.

Course Numbers	Explanation
1-99	Courses accepted by the University of California system. For specific course articulation (equivalency), consult the Counseling Office or the Transfer Center.
1-199.	Courses accepted by the California State University system and most other four-year colleges and universities. For specific course to course articulation (equivalency), consult the Counseling Office or the Transfer Center.
200-299	Associate degree applicable. Although not intended for university transfer, these courses may be accepted by some colleges in certain majors, especially if provided for in an articulation agreement.
300-399	College credit, Non-degree applicable, and basic skill courses. Effective the Spring semester, 1996, students enrolled in the 300 series (Course Number) of classes will be graded on an "A," "B," "C," and "No credit" basis.
400	Noncredit, general courses

ACCOUNTING

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

A course that introduces students to fundamental business organization; recording of business financial activities; accounting statements preparation and inter-relationships; and the analysis of financial activities for sole proprietorships, partnerships and corporations.
CAN BUS 2

Advisory On Recommended Preparation: Sophomore standing (at least 30 college units completed).

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

This is a second transfer-level Principles of Accounting course, which expands the discussion of corporate financing and ownership; continues financial statement analysis and interpretation; studies managerial control, information systems, cost accumulation and capital budgeting techniques; and other measuring and reporting methods.
CAN BUS 4

Advisory On Recommended Preparation: ACCT 1 or equivalent college course with "C" or better.

ACCT 101 ESSENTIALS OF ACCOUNTING 5 UNITS
Hours: 5 Lecture/Discussion

Accounting 101 is an introduction to accounting for students not majoring in business as well as students pursuing a career in accounting. Students will learn accounting principles and practices including the effects of transactions, adjusting, closing, and reversing entries on the assets, liabilities, and owner's equity elements of professional, service, and merchandising businesses.

ACCT 202 GENERAL VOCATIONAL ACCOUNTING 5 UNITS
Hours: 5 Lecture/Discussion

This course continues to apply the fundamental accounting equation to additional topics, including: Computations for and recording of interest bearing and discounted notes payable, interest bearing notes receivable, discounting notes receivable and the end-of-period adjustments. Direct write-off and reserve methods of and for the treatment of uncollectible accounts. Methods of assigning values to ending of 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.

Advisory On Recommended Preparation: ACCT 101 or ACCT 1 or equivalent college course with "C" or better, or the completion of high school bookkeeping (accounting) with a grade of "A" or "B" in each of the four semesters.

ACCT 210 MICROCOMPUTER OPERATIONS: 3 UNITS
COMPUTER ACCOUNTING

Hours: 3 Lecture
Cross Ref: Computer 210

Materials Fee: \$6.00

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.

Advisory On Recommended Preparation: ACCT 101 or 1 or equivalent college course with "C" or better; and microcomputer experience.

ACCOUNTING

ACCT 282 INDIVIDUAL INCOME TAX 5 UNITS
Hours: 5 Lecture/Discussion

Materials Fee: \$5.00

A study of the Federal and California income tax laws that apply to the individual taxpayer(s), the application of the laws by computation of various practical problems and the completion of forms required by the Internal Revenue Service and the California State Franchise Tax Board. The requirements for becoming a licensed tax preparer and the rules and regulations governing licensed tax preparers. This course may be taken for personal use, but is primarily designed for the vocational student; to orient the student toward working with these problems in an accounting office, a financial institution, an enrolled agent's office, the Internal Revenue Service, the California State Franchise Tax Board, a state licensed tax preparer's office or in their own office as a California state licensed tax preparer.

ACCT 287 ACCOUNTING FOR SERVICE BUSINESSES 3 UNITS
Hours: 3 Lecture/Discussion

Avocational 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.

ACCT 292 FUNDAMENTALS OF GOVERNMENTAL 3 UNITS
ACCOUNTING

Hours: 3 Lecture/Discussion
6 Homework

Fundamentals of Governmental Accounting is an introduction to governmental or fund accounting. The student will learn basic accounting principles and practices as they apply to governmental and not-for-profit organizations.

Advisory On Recommended Preparation: Keyboarding/ten-key calculator experience helpful.

ADMINISTRATION OF JUSTICE

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

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

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.

AJ 14 INTRODUCTION TO CRIMINAL LAW I 3 UNITS
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. **CAN AJ 4.**

Course Discriptions

ADMINISTRATION OF JUSTICE

- AJ 25 CONSTITUTIONAL LAW INTERPRETATION 3 UNITS**
CIVIL LIBERTIES, FACT AND FALLACY
Hours: 3 Lecture/Discussion
Cross Ref: Political Science 25
Business 25
 This course allows students to study and apply logic and critical thinking to written and oral communication through the study of the fundamental rights as protected by the United States Constitution. This course will develop an understanding of the role of the courts and key court cases interpreting individual rights. Students will develop the skills to analyze others' arguments, produce their own arguments and develop solutions to problems utilizing the case study method in legal research and analysis. Students will be required to write a total of 6,000 to 8,000 words.
Advisory On Recommended Preparation: ENGLISH 1 and SPEECH 1, or equivalent college course with a "C" or better.
- 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.
- AJ 111 WRITING FOR CRIMINAL JUSTICE 3 UNITS**
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.
- 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. CAN AJ 6.
- AJ 113 JUVENILE LAWS AND PROCEDURES 3 UNITS**
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.
- AJ 114 JUVENILE DELINQUENCY 3 UNITS**
Hours: 3 Lecture/Discussion
 This is an introductory course designed to explore the concept of Juvenile Delinquency. Emphasis is focused on defining delinquency and identifying who are the delinquents and theories of causation, (biological, psychological and sociological). A general review of societies' insitution for delinquent, including formal agencies dealing with delinquent behavior and community based programs designed for the prevention of delinquency.
- AJ 115 CRIMINAL LAW II 3 UNITS**
Hours: 3 Lecture/Discussion
 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.
- 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.

ADMINISTRATION OF JUSTICE

- AJ 117 CORRECTIONS, INTERVIEWING AND COUNSELING 3 UNITS**
Hours: 3 Lecture/Discussion
 An introduction to the philosophy and techniques of interviewing and counseling used in probation, parole, and corrections.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with a "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.
- AJ 118 CRIMINAL INVESTIGATION 3 UNITS**
Hours: 3 Lecture/Discussion
 This course is an in-depth study of the fundamentals of criminal investigation. Topics covered are techniques of crime scene search and recording, collection and preservation of physical evidence, modus operandi processes, sources of information, interview and interrogation, and follow-up investigation. 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.
- AJ 120 WOMEN IN THE CRIMINAL JUSTICE FIELD 3 UNITS**
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.
- AJ 121 INTRODUCTION TO CORRECTIONS 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.
- AJ 122 PRINCIPLES & PROCEDURES FOR THE CRIMINAL JUSTICE SYSTEM 3 UNITS**
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.
- AJ 123 CRIMINAL JUSTICE ETHICS 3 UNITS**
Hours: 3 Lecture/Discussion
6 Homework
 This course allows students to examine and discuss various ethical issues and values of concern to Administration of Justice professionals. Topics include principles of justice with ethical applications in policing, in the courts, in corrections and in the profession.
Advisory on Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 or equivalent college course with "C" or better or eligibility for ENGLISH 1 determined by COS placement procedures.
- AJ 160 CRIMINAL LAW TERMS IN SPANISH 1 UNIT**
Hours: 1 Lecture/Discussion
Cross Ref: SPANISH 160 and PARA 160
 This elective course presents the Spanish language equivalents to American legal terminology used in the criminal justice system. It is recommended for court interpreters, paralegals, administration of justice majors and people working in law enforcement.
Advisory On Recommended Preparation: SPANISH 2 or equivalent college course with "C" or better, or 2 years of high school Spanish with "C" or better, or equivalent bilingual background.
- AJ 193- COOPERATIVE/WORK EXPERIENCE 1-4 UNITS**
196
Hours: Arranged
 You are a participant in the College of the Sequoias 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

AJ 200-M1 BASIC POLICE ACADEMY (MODULE 1) 1.5 UNITS

Total Hours: SHORT TERM CLASS:

64 Lecture
20 Activity
40 Homework

Materials Fee: \$17.00

This is the first module of a four-module series leading to completion of the Basic Police Academy Course. The course will survey the following topics: professional orientation, criminal law, rules of evidence, laws of arrest, use of force, community relations, and handgun shooting techniques.

Prerequisite: (1) Passing score on the P.O.S.T. entry level reading and writing test; (2) high school diploma or G.E.D., (3) no felony convictions; (4) a valid California Driver's License; (5) medical clearance by a licensed physician and (6) fingerprint clearance from the California Department of Justice; (7) possession of all required equipment, uniforms, supplies and materials; and (8) payment of all enrollment, material and subsidiary fees.

Advisory on Recommended Preparation: Because this course requires strenuous lifting, reaching, falling, and range of motion activities, students should be free of any medical or physical conditions which could be aggravated by participating in the course. All students must participate fully in all activities in order to successfully complete the course.

AJ 200-M2 BASIC POLICE ACADEMY (MODULE 2) 2 UNITS

Total Hours: SHORT TERM CLASS:

106 Lecture
24 Activity
60 Homework

Materials Fee: \$4.50

This is the second module of a four-module series leading to completion of the Basic Police Academy Course. This module addresses the supplemental curricula mandated for completion of the P.O.S.T. Level III Reserve Officer Course.

Prerequisite: (1) Passing score on the P.O.S.T. entry level reading and writing test; (2) high school diploma or G.E.D., (3) no felony convictions; (4) a valid California Driver's License; (5) medical clearance by a licensed physician and (6) fingerprint clearance from the California Department of Justice; (7) possession of all required equipment, uniforms, supplies and materials; (8) payment of all enrollment, material and subsidiary fees; (9) completion of AJ 200 (Module 1) or equivalent college course with a grade of "C" or better.

Advisory on Recommended Preparation: Because this course requires strenuous lifting, reaching, falling, and range of motion activities, students should be free of any medical or physical conditions which could be aggravated by participating in the course. All students must participate fully in all activities in order to successfully complete the course.

AJ 200-M3 BASIC POLICE ACADEMY (MODULE 3) 4 UNITS

Total Hours: SHORT TERM CLASS:

224 Lecture
52 Activity
120 Homework

Materials Fee: \$4.00

This is the third module of a four-module series leading to completion of the Basic Police Academy course. This module meets all curricular and testing requirements mandated for completion of the P.O.S.T. Level II Reserve Officer Course.

Prerequisite: (1) Passing score on the P.O.S.T. entry level reading and writing test; (2) high school diploma or G.E.D., (3) no felony convictions; (4) a valid California Driver's License; (5) medical clearance by a licensed physician and (6) fingerprint clearance from the California Department of Justice; (7) possession of all required equipment, uniforms, supplies and materials; (8) payment of all enrollment, material and subsidiary fees; (9) completion of AJ 200 (Module 1 and 2) or equivalent college courses with a grade of "C" or better.

Advisory on Recommended Preparation: Because this course requires strenuous lifting, reaching, falling, and range of motion activities, students should be free of any medical or physical conditions which could be aggravated by participating in the course. All students must participate fully in all activities in order to successfully complete the course.

ADMINISTRATION OF JUSTICE

AJ 200-M4 BASIC POLICE ACADEMY (MODULE 4) 4.5 UNITS

Total Hours: SHORT TERM CLASS:

250 Lecture
120 Activity
200 Homework

Materials Fee: \$5.50

This is the final module of a four-module series leading to completion of the Basic Police Academy. When combined with the P.O.S.T. Level III and II modules, completion of this module will constitute completion of the P.O.S.T. Basic Police Academy.

Prerequisite: (1) Passing score on the P.O.S.T. entry level reading and writing test; (2) high school diploma or G.E.D., (3) no felony convictions; (4) a valid California Driver's License; (5) medical clearance by a licensed physician and (6) fingerprint clearance from the California Department of Justice; (7) possession of all required equipment, uniforms, supplies and materials; (8) payment of all enrollment, material and subsidiary fees; (9) completion of AJ 200 (Module 1, 2, and 3) or equivalent college course with a grade of "C" or better.

Advisory on Recommended Preparation: Because this course requires strenuous lifting, reaching, falling, and range of motion activities, students should be free of any medical or physical conditions which could be aggravated by participating in the course. All students must participate fully in all activities in order to successfully complete the course.

AJ 200 BASIC POLICE ACADEMY 12 UNITS

Hours: Total Hours: 860

Lecture Hrs Per Week: 40
Activity Hrs. Per Week: 10
Homework: 6

Materials Fee: \$25.00

A state certified basic training course for peace officers. Covers introduction to law enforcement, criminal law, evidence, administration of justice, criminal investigation, community-police 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.

Prerequisite: (1) Passing score on the P.O.S.T. entry level reading and writing test; (2) high school diploma or G.E.D., (3) no felony convictions; (4) a valid California Driver's License; (5) medical clearance by a licensed physician and (6) fingerprint clearance from the California Department of Justice.

AJ 203 TRAFFIC COLLISION INVESTIGATION 2 UNITS

**Hours: 36 Lecture/Discussion
4 Lab**

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

Advisory On Recommended Preparation: AJ 200 or equivalent college course with "C" or better, or recommendation of department.

AJ 204 SUPERVISORY TECHNIQUES 5 UNITS

**Hours: SHORT TERM CLASS
Total Lecture/Discussion: 80 hours**

Material Fee: \$10.00

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.

Prerequisite: AJ 200 or equivalent college course with a "C" or better.

AJ 208 P.C. 832 (LAWS OF ARREST MODULE) 2 UNITS

**Hours: SHORT TERM CLASS
32 Lecture/Discussion
8 Lab (40 hour course - 1 week)**

Material Fee: \$2.00

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

Course Discriptions

ADMINISTRATION OF JUSTICE

AJ 209 PC 832 (FIREARMS MODULE) 1.5 UNITS
Hours: SHORT TERM CLASS (usually 3 consecutive days)
 16 Lecture/Discussion
 8 Lab

Material Fee: \$5.00

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.

Advisory on Recommended Preparation: AJ 208 or equivalent college course with "C" or better.

AJ 210 LEVEL 3, 3 UNITS
RESERVE PEACE 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.

AJ 211 LEVEL 2, RESERVE 5 UNITS
PEACE OFFICER TRAINING
Hours: 8 Lecture/Discussion
 16 Lab

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. This course is mandated for anyone who will work as a Level II (Ride-Along) Reserve Peace Officer. Formerly CJ 86C.

Prerequisites: AJ 210 or equivalent college course with a "C" or better.

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.

Prerequisites: AJ 211 or equivalent college course with "C" or better.

AJ 213a-b INTERVIEWING AND INTERROGATION. 1 UNIT
TECHNIQUES
Hours: SHORT TERM CLASS: TOTAL HOURS 48
 20 Lecture/Discussion
 4 Lab
 24 Homework

The course presents practical approaches and techniques for conducting interviews and interrogations for people interested in a career in the public safety professions. The course will end with practical application and scenario testing. This course may be repeated once.

Advisory on Recommended Preparation: AJ 200 or equivalent college course with a "C" or better.

ADMINISTRATION OF JUSTICE

AJ 215 DRUG SYMPTOMOLOGY 1 UNIT
Hours: SHORT TERM CLASS: TOTAL HOURS 48
 16 Lecture/Discussion
 8 Lab
 24 Homework

This course addresses the signs, symptoms, packaging and concealment of opiates and other illicit drugs. It also discusses the physical and psychological effects of narcotics. The course will conclude with discussions of clandestine laboratories and courtroom testimony.

Advisory on Recommended Preparation: AJ 200 or equivalent college course with "C" or better.

AJ 299 a-d TOPICS--ADVANCED PEACE 1-12 UNITS
OFFICER TRAINING
Hours: Variable

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.

Advisory On Recommended Preparation: AJ 200 or equivalent college course with "C" or better, or recommendation of department.

AJ 301 PRACTICAL LAW 2 UNITS
Hours: 2 Lecture/Discussion
Cross Ref: Para 301

This basic skills class enhances study skills and basic competencies in math, reading, oral communication and written communication in a legal content course. This class is meant to supplement the skills learned in other precollegiate courses. It is recommended for students interested in pursuing a law related career, but not yet ready for degree applicable courses.

AJ 313a-b BASIC ACADEMY PREPARATION 3 UNITS
Hours: 64 Lecture
 20 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.

Advisory On Recommended Preparation: ENGLISH 382 or equivalent college course with "C" or better, or eligibility for English 383 determined by COS Placement Procedures.

AJ 320a-d BASIC FIREARMS 1 UNIT
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.

AJ 321 SIDE HANDLE BATON .5 UNIT
Hours: 8 Lecture/Discussion
 4 Lab

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.).

AJ 360 APPLIED MATH FOR LEGAL CAREERS 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework

Cross Ref: PARA 360

This non-degree applicable math course designed to improve students' math skills in a legal career contextual setting. Students will improve their practical problem-solving skills covering topics covered by the COS Math Competency Test.

Course Descriptions

AGRICULTURE

- AG 3 ECONOMIC ENTOMOLOGY 3 UNITS**
Hours: 3 Lecture/Discussion
1 Lab
 A general study of western insects, their life cycles, classification, and identification, methods of control, and economic importance in California.
- AG 4 SOILS 3 UNITS**
Hours: 2 Lecture/Discussion
2 Lab
 Biological, chemical, physical and genetic soil properties, interpretation of soils information for agricultural management, and production; proper land use and conservation; and soil and water management. CAN AG 14
- AG 103a-c APPLIED AGRICULTURE PRACTICUMS 2 UNITS**
Hours: 2 Lecture/Discussion
2 Lab
5 Homework
 This course is designed to prepare students as crop and plant managers, landscape foremen and nursery managers. Students design and manage their own practicum under supervision of the instructor. This course is repeatable two times.
- AG 105 FERTILIZERS 3 UNITS**
Hours: 2 Lecture/Discussion
2 Lab
 A broad study of fertilizers and soil 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.
Advisory On Recommended Preparation: AG 4 or equivalent college course with "C" or better.
- AG 106 CAREER OPPORTUNITIES FOR WOMEN IN AGRICULTURE 2 UNITS**
Hours: 2 Lecture/Discussion
2 Lab
 This course is an introduction to the agricultural curriculum offered at College of the Sequoias intended for women who want to experience the many different fields of agriculture and pursue a career which utilizes their skills and interest.
- AG 125 PRINCIPLES OF PESTICIDE USE 3 UNITS**
Hours: 3 Lecture/Discussion
 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.
- AG 200a-d AGRICULTURE LEADERSHIP 1 UNIT**
Hours: 1 Lecture/Discussion
3 Homework
 The objective of the course is to build leadership skills of students. Through the COS Agriculture Ambassador program students will learn team building, speaking ability, self-confidence and communication skills.
- AG 201 AGRICULTURAL MATHEMATICS 3 UNITS**
Hours: 3 Lecture/Discussion
1 Lab
 Practical problem-solving in soils, crops, dairy, horticulture, livestock, poultry, and feeds; discounts and interests, percentages, linear measurements, area, volume, metric measures, and their application in today's agriculture.
- AG 205 CAREERS IN THE AGRICULTURE INDUSTRY 1 UNIT**
Hours: 1 Lecture/Discussion
3 Homework
 The objective of the course is to get agriculture students to research career opportunities in the agriculture industry. The course will also prepare them to seek job opportunities, prepare resumes, portfolios and conduct job interviews.

AGRICULTURE

- AG 230 UNDERSTANDING PARLIAMENTARY PROCEDURE 1 UNIT**
Hours: Short term Class
Total Hours: 12 Lecture/Discussion; 8 Lab;
34.5 Homework
 A short course designed to familiarize students with parliamentary law. The course will cover rules of parliamentary procedure, use motions and proper methods in conducting a meeting.
- AG 280 WOOL AND FIBER APPLICATION 1 UNIT**
Hours: SHORT TERM CLASS: TOTAL HOURS 52.5
18 Lecture
34.5 Laboratory
 This is a basic course in the study and application of material fiber, including wool, mohair and cotton. The selection, grading and processing of fiber will be covered. Processing on the home front including washing, carding, and basic spinning will be covered.
- AG 299a-d SPECIAL TOPICS IN AGRICULTURE 1-4 UNIT/S**
Hours: Variable
(See Special Topics in the Course Descriptions of this catalog.)
- AG 301 a-d VECTOR CONTROL I 1 UNIT**
Hours: 16 Lecture/Discussion
4 Activity
 A course of regional training for public agency Vector Control personnel to meet biennial State certification requirements.
Limitation On Enrollment: Prospective or certified local public health Vector Control personnel, or by permission of department.
- AG 363 SPANISH FOR FARMERS 2 UNITS**
Hours: 2 Lecture/Discussion
1 Lab
 This course is designed to give students an understanding of the Spanish language as used by the farmworker. Students will practice translating short sentences useful to them in their work. They will also develop their reading of the Spanish language, and will have to practice speaking in Spanish.

AGRICULTURAL MANAGEMENT

- AG MGT 1 INTRODUCTION TO AGRICULTURE ECONOMICS 3 UNITS**
Hours: 3 Lecture/Discussion
1 Lab
 The first course in the Agriculture Management Certificate Program at COS. This 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 102 AGRICULTURE SALES AND MARKETING 3 UNITS**
Hours: 3 Lecture/Discussion
1 Lab
 This course covers selling techniques as they relate to the agriculture industry. Agriculture selling strategies and approaches are emphasized. Marketing 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.

Course Descriptions

AGRICULTURAL MANAGEMENT

AG MGT 103 INTRODUCTION TO AGRICULTURE MANAGEMENT 3 UNITS
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 decision-making will be discussed. The basic steps involved in organizational design will be covered.

AG MGT 104 FARM ACCOUNTING 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab

Materials Fee: \$5.00

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

AG MGT 106 DAIRY INDUSTRIES TOUR 1 UNIT
Hours: 8 Lecture/Discussion
18 Lab

This course is designed for agriculture business management and dairy science students as part of the Agriculture Business Management and Dairy Science Certificate programs at COS. The course will offer students an opportunity to visit various organizations within the agriculture industries in a field study atmosphere.

AG MGT 108a-b INTRODUCTION TO AGRICULTURE COMPUTER APPLICATIONS 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab

Materials Fee: \$10.00

This course is vital to all Agriculture majors at COS. Every phase of the agriculture industry uses computer wordprocessing and spreadsheet software. Microsoft Word and Excel are two such popular software applications. This course is designed to give students a working knowledge and skill of using these two software programs with agriculture applications.

AG MGT 271 ORIENTATION TO THE AGRICULTURE BUSINESS INDUSTRY 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

This course is designed to be an introductory course in the exploration of career choices in the agriculture industry. The basics of careers in agriculture sales, management, crops, animal science, accounting and leadership will be covered.

Advisory on Recommended Preparation: Recommendation of 20 cwpm keyboarding skills.

AGRICULTURAL MECHANICS

AG MECH 101 BASIC FARM MECHANICS 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab

An introductory course in the Ag Engineering discipline designed to give students a basic understanding of the theory and practical operation of power equipment and tools in farm shops. CAN AG 4

AGRICULTURAL MECHANICS

AG MECH 102a-d FARM EQUIPMENT CONSTRUCTION 2 UNITS
Hours: 3 Lecture/Discussion
1 Lab

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.

AG MECH 103 FARM POWER 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab

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 diesel and gasoline powered tractors.

AG MECH 104 FARM MACHINERY 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab

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.

AG MECH 105a-d FARM STRUCTURE 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab

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.

AG MECH 106a-d AGRICULTURE WELDING 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab
5 Homework

A study of the fundamental principles and practices of welding used in Agriculture Construction, fabrication and repair. All positions, joint types, hard surfacing, cutting, brazing, SMAW, GMAW, and OFW will be studied. This course may be repeated three times.

AG MECH 107 FARM SURVEYING 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab

This course is designed to prepare the student to be able to compute cuts, fills, and cubic yards of soil to be moved for a land leveling job. The computer will be used to develop cut and fill maps for land leveling jobs. The student will be able to use levels, transits, rods, and chains to measure and survey. Laser scraper and tractors will be used to complete a land leveling job.

AG MECH 108 IRRIGATION 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab

A fundamental course designed to give students an understanding of basic soil and water relationships. The Blaney-Griddle formula is the foundation for irrigation design of when to irrigate and how much water to apply. Pumps, measurement, and transport of water and salt problems will be an important part of the study.

AGRICULTURAL MECHANICS

AG MECH AGRICULTURE EQUIPMENT MAINTENANCE AND TECHNOLOGY 2 UNITS
111
Hours: 1 Lecture/Discussion
 3 Lab

This course is designed to train students in modern agricultural equipment maintenance and technology. Industry standard maintenance schedules and methods will be used to teach required employment skills. A variety of agricultural equipment will be used to demonstrate hydraulic and electronic technology. In addition preventive maintenance, such as lubrication, cooling fuel, electrical checks and troubleshooting will be covered.

AG MECH SMALL ENGINES AND EQUIPMENT 2 UNITS
209a-d
Hours: 2 Lecture/Discussion
 2 Lab
 5 Homework

A study of the basic principles of modern small engines, lawn and garden equipment. Operation, service, repair and safety will be covered in lecture and lab assignments. This course may be repeated three times.

AG MECH SMALL ENGINES AND EQUIPMENT 2 UNITS
209a-d
Hours: 2 Lecture/Discussion
 2 Lab
 5 Homework

A study of the basic principles of modern small engines, lawn and garden equipment. Operation, service, repair and safety will be covered in lecture and lab assignments. This course may be repeated three times.

AG MECH AGRICULTURE PROJECT CONSTRUCTION 3 UNITS
210a-d
Hours: 3 Lecture/Discussion
 1 Lab
 6 Homework

This is an introductory course designed to give students a basic understanding of the mechanics and technology of fabrication. This class will study the characteristics, types, and costs of construction materials for their use in agriculture and industrial equipment fabrication. This course may be repeated three times.

AG MECH WELDING POWER SOURCES AND APPLICATIONS 1 UNIT
212a-d
Total Hours: SHORT TERM CLASS
 17.5 Lecture/Discussion
 35 Homework

This is a short-term course designed to explore the many different makes and models of new welding power sources. Operation, capabilities, uses and power requirements will be covered. Student will see demonstrations, as well as be able to try new welding machines. This course may be repeated three times.

AG MECH OUTDOOR POWER EQUIPMENT 3 UNITS
214
Hours: 3 Lecture/Discussion
 6 Homework

This is a course in the theory of operation, diagnosis and repair, pre-delivery procedures, including assembly and adjustment of attachments and add-on accessories of smallpower equipment utilized in lawn, turf, garden, and the rental equipment industry.

AGRICULTURAL MECHANICS

AG MECH OUTDOOR POWER EQUIPMENT APPLICATION 2 UNITS
215
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

This course provides students technical knowledge and hands-on experience in the operation and repair of small gas and diesel engines.

AG MECH APPLIED HYDRAULICS 2 UNITS
216
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

Theory, principles, application, diagnostics, repairs and testing of hydraulic circuits and components of modern equipment.

AG MECH POWER TECHNICIAN SKILLS AND PRACTICES 2 UNITS
217
Hours: 2 Lecture/Discussion
 1 Lab
 6 Homework

An introductory class in the skills of the diesel mechanics and agriculture power mechanic. Ignition, fuel systems, and operation of both as and diesel engines will be covered. Emphasis is on diagnostic and repair skills.

AG MECH POWER TRAINS 2 UNITS
218
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

A study of the power train from clutch to final drive. It includes a study of clutch type, torque converters, transmissions, and final drives. Troubleshooting and serving of these components will be stressed in this course.

AG MECH AGRICULTURE MECHANICS, SKILLS AND PRACTICES 3 UNITS
271
Hours: 3 Lecture/Discussion
 2 Lab
 4 Homework

This course is designed to be an introductory course in Ag Mechanics. The curriculum is basic and is intended for the student that has no or very little, Ag Mechanic experience. Basic skills will be taught in safety, hand and power tools use, welding, plumbing and measurement.

AIR FORCE ROTC

College of the Sequoias students, men or women, may register for lower division classes designed for those who wish to explore becoming an officer in the United States Air Force. The classes are conducted at California State University, Fresno. Students must be in good academic standing and must be full-time at COS (enrolled in at least 12 semester units). If accepted, you will need to enroll in two 1-unit classes (total of two hours per week) per semester.

Upon receipt of CSUF transcript, College of Sequoias will accept the units as general elective units toward the AA or AS degree. Obligation to the Air Force does not come until the student's junior year. After transferring to CSU-Fresno, if you qualify, you may be eligible to receive a two year, \$1500 incentive scholarship per semester for tuition, books, and incidental fees as well as \$200 per month stipend during the school year. You may even obtain a minor in Aerospace Studies by completing the AFROTC program (16 upper division units).

For information concerning what courses are offered at California State University, Fresno visit the Aerospace Studies Department at CSUF located in the North Gym, Room 158 or call (559) 278-2593.

Course Discriptions

AMERICAN SIGN LANGUAGE

ASL 1 BEGINNING AMERICAN SIGN LANGUAGE 1 3 UNITS

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 Signing Naturally curriculum which emphasizes the functions of everyday communication and uses only the target language in class.

Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

ASL 2 BEGINNING AMERICAN SIGN LANGUAGE 2 3 UNITS

Hours: 3 Lecture/Discussion

A continuation of ASL 1: The skills introduced in ASL 1 will be expanded. Students will be able to express considerably more complicated needs and will become more adept at functioning in the Deaf community.

Prerequisite: ASL 1 or equivalent college course with "C" or better.

ASL 3 INTERMEDIATE AMERICAN SIGN LANGUAGE 3 UNITS

Hours: 3 Lecture/Discussion

A continuation of ASL 2: The skills introduced in ASL 1 and 2 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 gain greater awareness of the Deaf culture.

Prerequisites: ASL 2 or equivalent college course with "C" or better.

ASL 4 ADVANCED AMERICAN SIGN LANGUAGE 3 UNITS

Hours: 3 Lecture/Discussion

A continuation of ASL 1, 2, and 3. Emphasis on fluency in functional conversational skills in cultural context. Morphology and grammar of American Sign Language will be explored in depth.

Prerequisite: ASL 3 or equivalent college course with "C" or better.

ASL110a-d SIGN LANGUAGE INTERPRETING 4 UNITS

Hours: 4Lecture/Discussion
4 Homework

Introduction to the profession of sign language interpretation, emphasizing a professional code of ethics applied to real situations. Training will develop skills from consecutive to simultaneous interpreting. Advanced techniques will include legal, medical, educational, mental health, religious, and deaf/blind interpreting. This course may be repeated three times.

Prerequisite: ASL 4 or equivalent college course with "C" or better or equivalent skills as determined by departmental assessment.

ANIMAL SCIENCE

AN SCI 1 INTRODUCTION TO ANIMAL SCIENCE 3 UNITS

Hours: 3 Lecture/Discussion
1 Lab

A survey course of the world's hunger problems and supply of animal products. The origin, characteristics, and adaption of the more important breed of livestock are discussed, along with job opportunities in animal agriculture. It is a required course applied toward the Animal Science Certificate. CAN AG 6

ANIMAL SCIENCE

AN SCI LIVESTOCK SELECTION AND EVALUATION 3 UNITS

Hours: 3 Lecture/Discussion
1 Lab
5 Homework

A study of the animal form in relation to its various functions. Beef, sheep, and swine species are evaluated using performance data and live observation. This course is repeatable one time.

AN SCI 22 HORSE HUSBANDRY 3 UNITS

Hours: 3 Lecture/Discussion
1 Lab

An introductory course to the current status of the horse industry, evaluation of the horse, breeds of horses, and their uses. Anatomy, diseases, unsoundness, vices, gaits, selection, and management of the equine. CAN AG 26

AN SCI LIVESTOCK 1 UNIT

101a-d MANAGEMENT SKILLS
Hours: 1 Lecture/Discussion
2 Lab
1 Activity

This course is designed to give students a chance to gain practical skills in livestock production. Students will be able to care and feed beef cattle, swine, and sheep species with instructor approval. Other skills learned will be feeding young stock, exhibiting and general livestock work.

AN SCI ANIMAL NUTRITION 3 UNITS

103
Hours: 3 Lecture/Discussion
1 Lab

A study of the constituents of feeds; the digestion and utilization of feedstuffs, and identification of feeds for each class of livestock. An introduction to feeding standards and computation of simple rations. CAN AG 12

Advisory On Recommended Preparation: AN SCI 1; and AG 201 or MATH 230, or equivalent college courses with "C" or better.

AN SCI ANIMAL DISEASES AND SANITATION 3 UNITS

104
Hours: 3 Lecture/Discussion
1 Lab

Animal Science 104 is a study of the common diseases and parasites of livestock. Topics of interest include, cause, symptoms, prevention and treatment of common diseases and parasites found in livestock.

AN SCI PREPARING LIVESTOCK FOR SHOWS AND SALES 2 UNITS

105a-d
Hours: 2 Lecture/Discussion
2 Lab

Materials Fee: \$10.00

A general study of handling beef, sheep, and swine species, selecting high quality livestock, and grooming them to their best advantage for shows and sales.

AN SCI INTRODUCTION TO MEAT SCIENCE 3 UNITS

107
Hours: 3 Lecture/Discussion
1 Lab

A study of the meat processing industry, USDA Grading Service, and marketing and nutritional aspects of meat products. Basic skills include the processing, handling, inspection, and storing of livestock and poultry species.

AN SCI MEAT GRADING AND SELECTION 2 UNITS

108a-b
Hours: 4 Lecture/discussion
56 Activity

Materials Fee: \$5.00

An advanced course designed to train students in determining USDA Quality and Yield Grades of beef, lamb, and pork carcasses, along with the selection of wholesale cuts. Students may compete in Intercollegiate Judging events locally and national events.

Course Descriptions

ANIMAL SCIENCE

AN SCI 109 INTRODUCTION TO VETERINARY TECHNOLOGY 3 UNITS

**Hours: 3 Lecture/discussion
1 Lab
6 Homework**

An introductory course for students interested in the field of veterinary technology, which reviews training and career opportunities. Animal behavior, handling, training and restraint will be thoroughly presented. Labs will provide opportunities for students to gain hands-on experience with domestic, farm and laboratory species.

AN SCI 110 SWINE PRODUCTION AND MANAGEMENT 3 UNITS

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

A study of swine production and herd management in California. Basic skills include pre- and post-natal care, nutrition, and breed selection. CAN AG 24

AN SCI 111 BEEF PRODUCTION AND MANAGEMENT 3 UNITS

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

A study of beef production and herd management in California. Basic skills focus primarily on purebred and commercial cow-calf operations. CAN AG 20

AN SCI 112 SHEEP PRODUCTION AND MANAGEMENT 3 UNITS

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

A study of sheep and wool production in California with a special emphasis on basic management practices. CAN AG 22

AN SCI 113 FARM ANIMAL BIOLOGY 3 UNITS

**Hours: 3 Lecture/Discussion
1 Lab
8 Homework**

This course is an introduction to the scientific concepts of farm animal biology. The objective of the course is to familiarize students with basic biology concepts of farm animals. Laboratory exercises will include hands-on training of the anatomy and physiology of farm animals for those students seeking employment or advanced degrees in the animal sciences.

AN SCI 114 ADVANCED SWINE MANAGEMENT 3 UNITS

**Hours: 3 Lecture/Discussion
1 Lab
5 Homework**

An in-depth analysis of pork production and marketing systems. This course will emphasize the business and management skills, as well as the technology needed to operate a modern successful swine ranch.

Prerequisite: AN SCI 110 or an equivalent college course with a "C" or better.

AN SCI 115 INFECTIOUS DISEASES OF SMALL ANIMALS 3 UNITS

**Hours: 3 Lecture/Discussion
1 Lab
5 Homework**

This course is designed to acquaint the student with clinical recognition, treatment, control and prevention of diseases in small animals. Common domestic animals will be the main focus with some discussion of exotic and laboratory animal species. Interpretation of and implementation of effective therapies will be stressed.

AN SCI 116 VETERINARY OFFICE PRACTICES 3 UNITS

**Hours: 3 Lecture/Discussion
1 Lab
5 Homework**

This course is designed to teach the skills that are necessary to operate the veterinary business office. Client communications, routine vaccinations, preventative medicine procedures and appropriate computer skills will be covered.

ANIMAL SCIENCE

AN SCI 120a-d BASIC EQUITATION 2 UNITS

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

The student will learn the proper way to catch, groom, saddle, bridle, and mount the horse. A great deal of time is spent on the proper use of their natural-aids. Riding under saddle, this class is designed to teach not only the students with little or no experience, but also the advanced riders wanting to develop their riding skills further.

AN SCI 121a-d PHYSICAL EDUCATION FOR THE EQUESTRIAN 1 UNIT

**Hours: .5 Lecture/Discussion
1.5 Activity
1.0 Homework**

Cross Listed: PE 121a-d

A one unit activity course designed to improve the individual's overall fitness through an understanding and application of the basic principles and techniques of equitation. This course is repeatable three times.

AN SCI 123 HORSE PRODUCTION 3 UNITS

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

Animal Science 123 involves the intense care of a breeding herd. The students have a hands-on approach to the care, feeding, and breeding of the horses at the COS Farm. This includes the care of the brood mares before, during, and after foaling, basic health concerns for a herd of horses, and experiences working with horses of all ages.

AN SCI 124a-b COLT BREAKING 2 UNITS

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

Materials Fee: \$5.00

The student will learn the proper way to catch, groom, saddle, bridle, mount the horse for the first time. A great deal of time is spent on ground work. The student will learn the proper method of lounging, driving the young horse from the ground. This class is designed to teach not only the students with little or no experience, but also the advanced riders wanting to develop their colt-breaking skills further.

AN SCI 225 EQUINE INDUSTRIES 1 UNIT

Hours: SHORT TERM CLASS (40 hour field trip)

This required field trip will include visitations to several facilities that produce, raise, and sell horses on a commercial basis.

AN SCI 226 EQUINE REPRODUCTIVE MANAGEMENT 1 UNIT

Hours: SHORT TERM CLAS: (Total Hours: 54.5)

**12 Lecture/Discussion
8 Lab
34.5 Homework**

This equine science course will cover reproduction of the horse. Artificial insemination including semen handling and mare estrus cycle management will be discussed thoroughly.

AN SCI 227 THE SNAFFLE BIT FUTURITY 1 UNIT

Hours: SHORT TERM CLASS: TOTAL HOURS 54.5

**12 Lecture/Discussion
8 Lab
34.5 Homework**

The Equine Science course will cover aspects of the Snaffle Bit Futurity including rules, regulations, scoring and how these are applied during the various Futurity competitions.

Course Descriptions

ANIMAL SCIENCE

- AN SCI 228 BITS AND BITTING** 1 UNIT
SHORT TERM CLASS: TOTAL HOURS 54.5
Hours: 12 Lecture/Discussion
 8 Lab
 34.5 Homework
 This Equine Science course will cover the aspects of all major bits, how to use them, and what makes them work.
- AN SCI 229 EQUINE RACING INDUSTRY** 1 UNIT
SHORT TERM CLASS: TOTAL HOURS 54.5
Hours: 12 Lecture/Discussion
 8 Lab
 34.5 Homework
 This Equine Science class is a study of the California Racing Industry, including track operations, management, rules of the horse race and the racing regulatory structure. This course includes a mandatory field trip.
- AN SCI 260 SHEEP EXHIBITING & SHOW PREPARATION** 1 UNIT
SHORT TERM CLASS: TOTAL HOURS 52.5
Hours: 18 Lecture
 34.5 Homework
 This short course is designed for the student, 4-H leaders and FFA advisors, who exhibit either market or breeding sheep. Livestock show ethics and rules, fitting equipment and techniques, and conditioning of sheep will be covered. Students may bring their own sheep or lab sheep will be available.
- AN SCI 270 LLAMA MANAGEMENT AND USES** 1 UNIT
SHORT TERM CLASS 52.5
Hours: 17.5 Lecture/Discussion
 35 Homework
 This course is designed to create an understanding of the llama. While based on the science of llama management, the course will offer practical knowledge in selection, feeding, health concerns and uses of the llama, the only American camel.
- AN SCI 271 ADVANCED LLAMA TRAINING** 1 UNIT
SHORT TERM CLASS 17.5
Hours: 8 Lecture/Discussion
 9.5 Lab
 35 Homework
 This course is an advanced training and packing course of the llama. Maintaining llama nutrition and health while on the trail will be covered. Training and packing lessons will be stressed and utilized.
- AN SCI 272 LIVESTOCK INDUSTRY INTRODUCTION** 3 UNITS
Hours: 3 Lecture/Discussion
 1 Lab
 5 Homework
 This class is an introductory course to the Livestock Industry. Topics will include exploration of breeds, products, markets and management skills. This course is for the novice stockperson.

ANTHROPOLOGY

- ANTHRO 4 PRE-COLUMBIAN ART AND CULTURE OF THE AMERICAS: MESOAMERICA** 3 UNITS
Hours: 3 Lecture/Discussion
Cross Ref: Art 4
 A survey of the major cultures of Mesoamerica from the Early Hunters stage until the European conquest. The course uses art as a vehicle for understanding this culture's philosophy, religion, politics, history, and economics. Included are the Olmec, Zapotec, Tajin, Mixtec, Maya and Aztec. Anthropology 4 is **NOT** open to students who have completed or are enrolled in Art 4.
Advisory On Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.
- ANTHRO 5 PRE-COLUMBIAN ART AND CULTURE OF THE AMERICAS: CENTRAL AND SOUTH AMERICA** 3 UNITS
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 **NOT** open to students who have completed or are enrolled in Art 5.
Advisory On Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.
- ANTHRO 10 CULTURAL ANTHROPOLOGY** 3 UNITS
Hours: 3 Lecture/Discussion
 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. CAN ANTH 4
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.
- ANTHRO 11 PHYSICAL ANTHROPOLOGY** 3 UNITS
Hours: 3 Lecture/Discussion
 The course discusses the behavioral characteristics of the living primates, the emergence of man and the evidence presented by human fossils. Human genetics and the probable reasons for human variation are considered, as is the physical adaptation of the human species to its environment. CAN ANTH 2
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

ARCHITECTURE

- ARCH 10 INTRODUCTION TO ARCHITECTURE AND ENVIRONMENTAL DESIGN** 3 UNITS
Hours: 2 Lecture/Discussion
 2 Lab
 5 Homework
 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.

ARCHITECTURE

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

Through exploration of the theories, processes and methods of environmental design and the analysis of the built environment, students will acquire the basic skills and knowledge necessary for success in the fields of architecture, landscape architecture, interior design, structural engineering, construction and city and regional planning. This course emphasizes three-dimensional design and composition, and design communication, utilizing both traditional methods and computer generated models and images. Recommended for students in any field of environmental or graphic design.

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

Materials Fee: \$10.00

This course introduces the basic graphic techniques used in design communication utilizing both traditional hand drawing techniques and computer image generation. The basic elements of form, theories of space and perception, composition, orthographic and isometric projection, mechanical perspective, critical evaluation, and shades and shadows are introduced. The course is recommended for students in any field of environmental design.

ARCH 21 BASIC GRAPHICS 3 UNITS
Hours: 2 Lecture/Discussion
 3 Lab
 4 Homework

Materials Fee: \$10.00

This course introduces graphic techniques used in the representation of three-dimensional forms and environments. Freehand and constructed drawing techniques, and computer image generation, are used to explore space and form, composition, color theory and use, shades and shadows, texture and materials, and entourage. The course is recommended for students in any field of environmental or graphic design.

ARCH 40 STRENGTH OF MATERIALS 3 UNITS
Hours: 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.

Advisory On Recommended Preparation: MATH 75 and PHYSICS 5 or equivalent college courses with "C" or better.

ARCH 120 FREEHAND DRAWING 3 UNITS
Hours: 2 Lecture/Discussion
 2 Lab
 5 Homework

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.

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

Materials Fee: \$10.00

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.

ARCHITECTURE

ARCH 141 STRESS ANALYSIS 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework

An introduction to the basic principles of structural integrity and stability, structural subsystems and methods of analysis. Students will analyze and design beams, columns, indeterminate structures, and connections. The effects of soil and hydrostatic pressures on structural systems will be explored.

Prerequisite: ARCH 40 or equivalent college course with "C" or better or equivalent skills and knowledge as determined by departmental assessment.

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

Materials Fee: \$10.00

A basic course in the application of computer programs 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.

ARCH 160 MATERIALS OF CONSTRUCTION 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework

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.

ARCH 161a-d COMPUTER ASSISTED ARCHITECTURAL DETAILING 3 UNITS
Hours: 2 Lecture/Discussion
 3 Lab
 4 Homework

Materials Fee: \$10.00

An up-to-date and comprehensive exploration of CAD and computer modeling and rendering for the architectural/engineering design professions and the construction industry. While developing a greater knowledge of building materials and construction practices students will learn correct and efficient production of construction documents, computer-aided visualization and form generation as design tools, computer rendering techniques and the application of computer animation for real-time simulation and walk-throughs.

ARCH 190a-d SUPERVISED PRACTICE (SEE SUPERVISED PRACTICE) 1-3 UNITS

ARCH 221a-c PERSPECTIVE ALTERNATIVES 3 UNITS
Hours: 3 Lecture/Discussion
 3 Lab
 3 Homework

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

Course Discriptions

ART

ART 1 ART APPRECIATION 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

(Approved for Distance Learning)

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 also includes an abbreviated survey of the major periods and artists of art history.

ART 2 ART HISTORY 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

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. CAN ART 2.

ART 3 ART HISTORY 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

A survey of the history of art of the Western world and its socio-cultural milieu from the Proto-Renaissance to the present. Illustrated lectures. Art 2 is NOT a prerequisite to Art 3. CAN ART 4.

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

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 NOT open to students who have completed or are enrolled in Anthropology 4.

Advisory On Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.

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

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.

Advisory On Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.

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

Cross Ref: CFS 6

Materials Fee: \$10.00

This is a basic course in art with a primary purpose of familiarizing the students with elements and principles used in design art. It includes fundamental concepts of form, shape, line and color in second dimensions. CAN ART 14

ART 7 COLOR AND DESIGN 3 UNITS
Hours: 2 Lecture/Discussion
2 Lab

Cross Ref: CFS 7

Materials Fee: \$10.00

Advanced course in art with a primary purpose of developing further elements of design into a student's personal style. A continuation of design principles as it applies to art methods. . CAN ART 16.

Advisory On Recommended Preparation: ART/CFS 6 or equivalent college course with "C" or better.

ART

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

Materials Fee: \$10.00

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

ART 9 DRAWING COMPOSITION 3 UNITS
Hours: 2 Lecture/Discussion
2 Lab

Materials Fee: \$10.00

A second semester drawing course exploring the expressive and compositional aspects of drawing.

Advisory On Recommended Preparation: ART 8 or equivalent college course with a "C" or better.

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

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.

Advisory On Recommended Preparation: ART 8 or equivalent college course with a "C" or better.

ART 11a-d SCULPTURE 3 UNITS
Hours: 1 Lecture/Discussion
5 Lab
3 Homework

Materials Fee: \$20.00

This course in sculpture is designed to develop awareness, knowledge and skills regarding historical and contemporary three dimensional design concepts. The emphasis is on personal expressions through a variety of materials and a wide range of possible applications. This course may be repeated three times. CAN ART 12 includes ART 11a and ART 11b.

ART 12a-d WATERCOLOR PAINTING 3 UNITS
Hours: 2 Lab
2 Activity
5 Homework

Materials Fee: \$10.00

The theory and techniques of watercolor painting as developed through creative problem solving exercises. Studio practice in figurative, abstract, and non-objective solutions using watercolor media. This course is repeatable three times.

ART 13a-d STUDIO PAINTING 2 UNITS
Hours: 2 Lecture/Discussion
2 Lab

Lecture and studio practice in the theories, techniques, and styles of easel painting. Emphasis is on oil and acrylic mediums. Can be repeated for up to 8 units credit.

Advisory On Recommended Preparation: ART/CFS 6 and ART 8 or equivalent college courses with "C" or better.

ART 15 PRINTMAKING 3 UNITS
Hours: 1 Lecture/Discussion
4 Lab
4 Homework

Materials Fee: \$20.00

A basic course designed to introduce the beginning student to the traditional printmaking techniques. The emphasis of the class is the relief/intaglio printmaking processes which include etching (metal/plastic), block printing (wood/linoleum), collograph, monoprint. CAN ART 20 (includes ART 15 and 16a).

Course Discriptions

ART

ART 16a-c ADVANCED PRINTMAKING 3 UNITS
Hours: 1 Lecture/Discussion
 4 Lab
 4 Homework

Materials Fee: \$20.00

An advanced course in the traditional intaglio/relief printmaking techniques. This course emphasizes professional development in the areas of design, production and presentation. Students are encouraged to further develop skills acquired in ART 15 or in previous printmaking experiences. This course may be repeated two times.

CAN ART 20 (includes ART 15 and 16a).

Advisory on Recommended Preparation: ART 15 or equivalent college courses with "C" or better, or comparable knowledge and skills.

ART 17a-d BASIC CERAMICS 3 UNITS
Hours: 1 Lecture/Discussion
 5 Lab
 3 Homework

Materials Fee: \$20.00

Students receive an introduction to the fundamentals of ceramics and hand built clay construction including pinch, coil, hard and soft slab techniques as well as basic history, glazing and firing. This course may be repeated three times.

CAN ART 6 (includes ART17a and ART 17b).

ART 18a-d CERAMIC DESIGN 3 UNITS
Hours: 1 Lecture/Discussion
 5 Lab
 3 Homework

Materials Fee: \$20.00

This course is an overview study of materials, methods and design of ceramics with the primary emphasis on utilization of the potters wheel. This course is designed to develop growth and stimulate individual creative expression within the ceramic medium. This course may be repeated three times.

Advisory on Recommended Preparation: ART 17a or 17b or an equivalent college course with a "C" or better.

ART 23a-d MACINTOSH BASICS FOR ARTISTS & DESIGNERS 3 UNITS
Hours: 2 Lecture/Discussion
 4 Lab
 3 Homework

Macintosh Basics for artists will enable visual artists to utilize the Macintosh computer and applications such as Adobe Photoshop, Illustrator, and PageMaker as vehicles for creative design and visual communication. Two and three-dimensional imaging, desktop publishing, and animation will be introduced. Students will also learn troubleshooting skills for hardware and software problems. This course is repeatable for a maximum of four semesters.

Advisory on Recommended Preparation: ART/CFS 6 or equivalent college course with "C" or better.

ART 25a-d DIGITAL IMAGING FOR ARTISTS 3 UNITS
Hours: 2 Lecture/Discussion
 4 Lab
 3 Homework

Digital Imaging for artists will enable visual artists to explore digital image making from scanning images to creating and printing photo collages. Macintosh computers and state-of-the-art imaging software, particularly Adobe Photoshop, will be utilized. This course may be repeated three times.

Advisory on Recommended Preparation: Basic computer skills as determined by departmental assessment.

ART 101a-d ARTS AND CRAFTS 3 UNITS
Hours: 2 Lecture/Discussion
 2 Lab
 5 Homework

Materials Fee: \$20.00

This course provides an emphasis on exploratory experiences with, and the use of, a wide variety of art media, techniques and applications. This course would benefit liberal arts majors, teaching majors, art majors and everyone interested in crafts. No experience in art or crafts is necessary. This course may be repeated three times.

ART

ART 105a-c BASIC METALCRAFT WELDING & FORGING 3 UNITS
Hours: 3 Lecture/Discussion
 3 Lab

Cross Ref: Welding 105a-c **Material Fee: \$15.00**

Instruction for women and men in Metalcraft welding and forging techniques, basic tools for welded craft projects and sculpture, and construction of abstract shapes and finished sculptures. This course can be repeated two times.

ART 111a-b EXHIBITION DESIGN, GALLERY 2 UNITS
Hours: 1 Lecture/Discussion
 2 Lab
 3 Homework

This course covers: the theory and technique of the proper presentation of art works; the exhibition of student, local and national professional artists' work; the examination and analysis of exhibition techniques in major art galleries and museums in California. Art 111a-b may be repeated once.

ART 119a-d STAINED GLASS DESIGN 3 UNITS
Hours: 1 Lecture/Discussion
 5 Lab
 3 Homework

Material Fee: \$20.00

This introductory course is designed to familiarize students with the fundamentals of the art of stained glass. It includes the exploration of design sources and principles as well as the study of fabrication and embellishment techniques. This course is repeatable three times.

ART 121a-c SERIGRAPHY/SCREEN PRINTING 3 UNITS
Hours: 1 Lecture/Discussion
 4 Lab
 4 Homework

Material Fee: \$30.00

A basic course designed to introduce the beginning student to introductory screen printing techniques. The emphasis of the class is the traditional serigraphic printmaking process and includes screen printing, stencil printing and gum dichromate prints on a variety of substrates including paper, fabric and glass.

ART 124a-d WEB IMAGING FOR ARTISTS & DESIGNERS 3 UNITS
Hours: 2 Lecture/Discussion
 4 Lab
 3 Homework

This is a course for commercial artists and graphic designers which covers the principles and techniques of designing and creating images for web sites that perform optimally regardless of the end users' browser or hardware. Macintosh computers with Photoshop, Illustrator, Image Ready, GoLive and Dreamweaver will be used. This course can be repeated three times.

Advisory on Recommended Preparation: ART 23a-d, ART 25a-d, or ART 126a-d or an equivalent college course with "C" or better.

ART 126a-d FRACTAL DESIGN PAINTER FOR ARTISTS 3 UNITS
Hours: 2 Lecture/Discussion
 4 Lab
 3 Homework

Material Fee: \$30.00

Introduction to Fractal Design Painter in relating images for commercial and fine art applications. Students will explore similarities between traditional methods of art making and those found in digital work. Images will be made from a wide range of mediums then translated into computer imagery, utilizing Macintosh computers, scanners and printers. This course can be repeated three times.

ART 127 INTRODUCTION TO PRINTMAKING 3 UNITS
Hours: 2 Lecture/Discussion
 4 Lab
 3 Homework **Material Fee: \$30.00**

This is a survey course in printmaking, covering relief printing, intaglio and etching, monoprint, collagraph, and lithography. It is designed to familiarize the beginning art student with the vast number of printing processes and techniques and affords intermediate and advanced students the opportunity to explore mediums that are not covered in other class offerings.

Advisory on Recommended Preparation: ART 8 or an equivalent college course with "C" or better.

Course Descriptions

ART

ART 128a-d LITHOGRAPHY 3 UNITS
Hours: 2 Lecture/Discussion
4 Lab
3 Homework Material Fee: \$30.00

The students will study the history and technique of lithographic processes, including traditional and contemporary methods. Students will learn both stone and aluminum plate lithography and will be challenged with techniques appropriate to their skill level. Students will explore color lithographic processes, including four color process digital lithography after completing the second semester. This class may be repeated three times.

Advisory on Recommended Preparation: ART 8 or an equivalent college course with "C" or better.

ART 174a-b FASHION ILLUSTRATION 3 UNITS
Hours: 2 Lecture/Discussion
3 Lab

Cross Ref: 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.

ART 210 ART STUDY TOUR 1 UNIT
Hours: SHORT TERM CLASS: TOTAL HOURS 54
18 Lecture/discussion
36 Homework

ART 210 is an art tour course for general students, the public, and art majors. Participants are expected to prepare themselves prior to the tour by reading pertinent materials selected by the instructor and the attending introductory lectures. The purpose of the course is to expose students, first hand, to major works of art (including painting, sculpture, and architecture). Students should consult the current schedule of classes for any additional fees.

ART 212a-d 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. **Advisory On Recommended Preparation:** ART/CFS 6 and ART 8 or equivalent college courses with "C" or better.

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. **Advisory On Recommended Preparation:** ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures; and MATH 230 or equivalent college course with "C" or better, or eligibility for MATH 21, 45, 70, 61, 75 or 154 determined by COS Placement Procedures.

AUTOMOTIVE TECHNOLOGY

AUTO 100 SAFETY, BENCH WORK AND SERVICE PROCEDURES 2 UNITS
Hours: 2 Lecture/Discussion
2 Lab
2 Homework

Automotive Technology 100 is the first course in the Automotive Program and is recommended for all Automotive Technology 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, tire construction and service, service writing procedures, service and parts sales and the "Write it Right" program from the Bureau of Automotive Repair.

AUTO 101 AUTOMOTIVE ELECTRICAL AND ELECTRONIC SYSTEMS 4 UNITS
Hours: 3 Lecture/Discussion
4 Lab
5 Homework

AUTO 101 is a study course of the automotive electrical and electronic systems. Instruction covers the inspection, testing and repair of the total electrical system and component parts. The lab portion of the course is conducted in a service and repair type atmosphere which allows the students to receive as much hands-on experience as possible.

Corequisite: AUTO 100 unless previously completed with a "C" or better or an equivalent college course with "C" or better or equivalent skills and knowledge as determined by departmental assessment.

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

A core 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.

Corequisite: AUTO 100 and AUTO 101 unless previously completed with a "C" or better, or equivalent college courses with a "C" or better, or equivalent skills and knowledge as determined by departmental assessment.

AUTO 103 AUTOMOTIVE ENGINES 4 UNITS
Hours: 2 Lecture/Discussion
6 Lab

Instruction in the construction, theory and repair of the automotive engine. The lab work will require that the student perform the necessary steps to rebuild an automotive engine. The student will be required to furnish an engine for their lab work.

Prerequisites: AUTO 100 and 101 or equivalent college courses with "C" or better.

AUTO 104 AUTOMOTIVE POWER TRAIN 3 UNITS
Hours: 2 Lecture/Discussion
4 Lab
3 Homework

A study of the mechanical transmission of power utilized in the modern automobile and light truck. Study includes clutch operation and repair; three, four, and five speed transmission operation and repair; drive shaft, differential, and drive axle operation and repair.

Corequisite: AUTO 100 and 101 unless previously completed with a "C" or better, or equivalent college courses with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.

AUTOMOTIVE TECHNOLOGY

AUTO 105 AUTOMOTIVE BRAKES AND BRAKING SYSTEMS 3 UNITS
Hours: 2 Lecture/Discussion
4 Lab/Demonstration
3 Homework

This course covers new concepts and repair procedures as well as the fundamentals affecting the service and maintenance of the automotive hydraulics pneumatics, brakes and braking systems. Instruction in anti-lock braking systems, associated electronics and the safe and proper use of shop tools and equipment for service and repair procedures will be included.

Corequisite: AUTO 100 and 101 unless previously completed with a "C" or better, or equivalent college courses with a "C" or better, or equivalent skills and knowledge as determined by departmental assessment.

AUTO 106 AUTOMATIC TRANSMISSIONS 4 UNITS
Hours: 2 Lecture/Discussion
6 Lab
4 Homework

A study of automatic transmissions and transaxles currently used in domestic and import automobiles and light trucks. Study includes torque converter operation and diagnosis; hydraulic system function and diagnosis; planetary gear theory and application. These theories and principles are then put into practice by overhauling specified two and three speed automatic transmissions.

Prerequisite: AUTO 100 or equivalent college courses with "C" or better.

AUTO 107 ADVANCED AUTO TRANSMISSIONS 3 UNITS
Hours: 2 Lecture/Discussion
4 Lab

An advanced course in automatic transmission service and repair. The student will have already passed the basic course and will be ready to deal with today's more sophisticated transmissions. The course is generally directed toward the Chrysler, Ford, and General Motors automatic overdrive transmissions. Automatic transaxles are also covered in the course of study.

Prerequisite: AUTO 100, 101 and 106 or equivalent college courses with "C" or better.

AUTO 108 AUTOMOTIVE ENGINE TUNE-UP 5 UNITS
Hours: 3 Lecture/Discussion
6 Lab
6 Homework

Instruction in advanced electrical theory, related to the entire electrical system, transistor ignition and regulation. Transistor, distributor and alternator overhaul. Tune-up and trouble-shooting of the engine and related circuits.

Prerequisite: AUTO 100 and 101 or equivalent college courses with "C" or better; or equivalent skills and knowledge as determined by departmental assessment. AUTO 102 or equivalent college course with "C" or better (at a minimum AUTO 102 should be taken concurrently.)

AUTO 109 AIR CONDITION AND ACCESSORIES 3 UNITS
Hours: 2 Lecture/Discussion
4 Lab
3 Homework

Instruction in most automotive accessories with emphasis in heating and air conditioning system diagnosis and repair.

Prerequisite: AUTO 100 and 101 or equivalent college courses with "C" or better or equivalent skills and knowledge as determined by departmental assessment. Can be taken concurrently.

AUTO 112 ADVANCED AUTOMOTIVE FUEL INJECTION 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab

Auto Mechanics 112 is an in-depth study of automotive fuel 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 aids and procedures.

Advisory On Recommended Preparation: AUTO 202 or equivalent college course with "C" or better, or recommendation of department.

AUTOMOTIVE TECHNOLOGY

AUTO 113 COMPUTERIZED ENGINE CONTROL 3 UNITS
Hours: 2 Lecture/Discussion
4 Lab
3 Homework

Instruction in advanced electrical theory related to computerized engine controls, trouble-shooting and repair of computer control systems on the modern automobile.
Corequisite: AUTO 108 should be taken concurrently.

AUTO 115 AUTOMOTIVE STEERING, ALIGNMENT AND SUSPENSION 3 UNITS
Hours: 2 Lecture/Discussion
4 Lab
3 Homework

New concepts and procedures as well as the fundamentals affecting the service and maintenance of vehicle front and rear suspension, alignment, and steering systems will be taught. Instruction in steering columns, automatic level ride systems and associated electronics, and the safe and proper use of shop tools and equipment will be covered.

Corequisite: AUTO 100 and 101 unless previously completed with a "C" or better, or equivalent college courses with a "C" or better, or equivalent skills and knowledge as determined by departmental assessment.

AUTO 122 ADVANCED ENGINE PERFORMANCE DIAGNOSIS 3 UNITS
Hours: 3 Lecture/Discussion
1 Lab
5 Homework

This course provides advanced diagnostic and trouble-shooting skills for automotive service technicians. The design, function and operation of modern test equipment such as lab scopes, scan tools and digital multimeters will be included.

Advisory on Recommended Preparation: AUTO classes 101, 102, 113, 108 and 202 or equivalent college courses with "C" or better or equivalent skills and knowledge as determined by division assessment.

AUTO 190a-d SUPERVISED PRACTICE 1-3 UNITS
(SEE SUPERVISED PRACTICE)

AUTO 201a-d ASE CERTIFICATION PREPARATION COURSE 1.5 UNITS
SHORT TERM CLASS:
Total Hours: 36 Lecture/Discussion
45 Homework

Instruction and examinations in engines, transmissions, steering-suspension, brakes, electrical, heating, air conditioning and tune-up. Preparation for the National Institute for Automotive Service Certification. This course may be repeated three times.

Advisory on Recommended Preparation: Completion of appropriate automotive courses or equivalent knowledge and skills learned through experience.

Corequisite: AUTO 100 and 101 if not previously taken.

AUTO 202 AUTOMOTIVE FUEL INJECTION 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

AUTO 202 is 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.

Advisory on Recommended Preparation: AUTO 100 and 101 with a "C" or better, or equivalent skills and knowledge as determined by departmental assessment.

Course Descriptions

AUTOMOTIVE TECHNOLOGY

AUTO 263a-d CLEAN AIR CAR COURSE 5 UNITS

Hours: 4 Lecture/Discussion
3 Lab
8 Homework

The Clean Air Car course is designed to prepare students to take the Bureau of Automotive Repair Smog Check licensing exam. The prerequisite to taking the Clean Air Car course for licensing purposes is one year of trade experience in emissions/tune up or equivalent formal education, as verified by the department. However, other interested parties are allowed to take the course, but will not be certified as eligible to take the licensing examination.

Prerequisites: AUTO 100, 101, 102, 108, and 113 or equivalent college courses with "C" or equivalent skills as determined by departmental assessment.

AUTO 265 ELECTRIC AND ALTERNATIVE FUEL VEHICLES 1.5 UNITS SHORT TERM CLASS (Total Hours: 81)

Hours: 18 Lecture/Discussion
9 Lab
54 Homework

A study of alternative fuels and electric powered vehicles that are available and in use in the transportation industry today. This course of study will include the following: electric vehicles, compressed natural gas (cng), ethanol, methanol, and liquefied petroleum gas (lpg). This course will explain legislative and regulatory policies concerning alternative fuel vehicles.

AUTO 267 AUTOMOTIVE WHEEL ALIGNMENT AND SERVICE 2 UNITS

Hours: 2 Lecture/Discussion
1 Lab
3 Homework

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

AUTO 300 AUTOMOTIVE FAMILIARIZATION 1.5 UNITS

Hours: SHORT TERM CLASS (9 weeks)
2 Lecture/Discussion
1 Lab
2 Homework

Auto Mechanics 300 is 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.

AUTO 499 PROFESSIONAL TECHNICIAN UPDATE 0 UNITS

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.

BIOLOGY

BIOLOGY 1 PRINCIPLES OF BIOLOGY 5 UNITS

Hours: 3 Lecture/Discussion
6 Lab
6 Homework

Biology 1 is the first semester of a two course introductory sequence for biology majors. The course covers the principles and applications of basic chemistry, biochemistry, cell structure and function, homeostasis, cell division, molecular and Mendelian genetics, cellular respiration, plus the taxonomy, development, comparative structure, organ system functions and behavior of animals. The philosophy and methods of science, and experimental design are emphasized. CAN BIOL 4

Advisory On Recommended Preparation: CHEMISTRY 1 or 20 or equivalent college course with "C" or better.

BIOLOGY 2 PRINCIPLES OF BIOLOGY 5 UNITS

Hours: 3 Lecture/Discussion
6 Lab
6 Homework

The second semester of a general principles course for Biology majors. Topics include microbiology, the comparative anatomy, physiology, phylogeny and taxonomy of plants. Population genetics, the mechanisms of evolution, the principles of population and community ecology, and community interactions are also considered. Laboratory exercises include several local field trips. CAN BIOL 6

Prerequisite: BIOLOGY 1 or equivalent college course with "C" or better.

Advisory on Recommended Preparation: CHEMISTRY 1, 20, or equivalent college courses with "C" or better.

BIOLOGY 20 FRONTIERS IN BIOLOGY 4 UNITS

Hours: 3 Lecture/Discussion
3 Lab
6 Homework

A general principles course for transfer students that are not life-science 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.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

BIOLOGY 20H FRONTIERS IN BIOLOGY - HONORS 4 UNITS

Hours: 3 Lecture/Discussion
2 Lab
1 Honors Colloquium

A general principles course for transfer students that are not life-science 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.

Limitation On Enrollment: Acceptance into the COS Honors Program.

BIOLOGY 21 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.)

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

BIOLOGY

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.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

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. Topics covered include: ecosystem structure and function; modern human societies and the short-range and projected long-range results of their activities in such areas as population, food, and agriculture, the survival of plant and animal species, the use of mineral and energy resources, and the pollution of water, air, and land.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

BIOLOGY 30 HUMAN ANATOMY 4 UNITS

Hours: 3 Lecture/Discussion
3 Lab

Biology 30 is a general survey course designed to acquaint the beginning student with enough anatomical 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. Units received from this course are usually transferable to four-year colleges and universities. The student is urged, however, to check with the college of his or her choice to be certain specific needs will be satisfied. CAN BIOL 10.

BIOLOGY 31 HUMAN PHYSIOLOGY 4 UNITS

Hours: 3 Lecture/Discussion
3 Lab
6 Homework

Biology 31 is a course designed to acquaint the beginning student with enough physiological principles necessary to understand the basic functioning of the human body. The basic principles of homeostasis and cellular functions are emphasized while covering the topics of muscular, neural, endocrine, cardiovascular, respiratory, digestive, renal, immune and reproductive physiologies. Laboratory experiments and exercises are designed to reinforce theories and processes described in lecture and to introduce students to basic physiological scientific investigation utilizing a variety of techniques including computer data acquisition. CAN BIOL 12

Prerequisites: BIOLOGY 30; and CHEMISTRY 1 or 20 or equivalent college courses with "C" or better.

BIOLOGY 40 GENERAL MICROBIOLOGY 4 UNITS

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) plus isolation 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. CAN BIOL 14.

Advisory On Recommended Preparation: CHEMISTRY 20 or equivalent college course with "C" or better; and any college level biology course.

Course Discriptions

BIOLOGY

BIOLOGY 126 NATURAL HISTORY OF THE GIANT SEQUOIA **1 UNIT**
Hours: **SHORT TERM CLASS: Total Hours 54 hrs. of Activity (1Week)**
 An intensive one-week field experience examining the natural history of the Giant Sequoia. Held in Kings Canyon and Sequoia National Parks, the biology of the Sequoia tree will be studied with regard to ecology and human impact. Offered in conjunction with the Sequoias Natural History Association's Field Seminar program.
Advisory On Recommended Preparation: Any college level biology course.

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.

BUILDING TRADES

(NOTE: The Building Trades discipline is currently in the process of being renamed "Construction Technology." Some courses have not been changed due to curriculum approval procedures at the college. See "CONSTRUCTION TECHNOLOGY" for further listings of courses previously in the Building Trades discipline. You can contact the Industry and Technology Chairperson for any concerns you might have.)

BLD TR 100 DRAWING FOR BUILDING CONSTRUCTION I **2 UNITS**
Hours: **2 Lecture/Discussion**
2 Lab
2 Homework
Materials Fee: \$5.00
 A required conceptual course in drawing for the building trades. The fundamentals of architectural drafting using hand drafting as well as computer aided drafting methods, blueprint reading, details, symbols, codes and specifications are covered. The floor and foundation plans for the Project House are developed in this class.
Advisory On Recommended Preparation: BLD TR 104 and CT 114 should be taken concurrently.

BLD TR 101 DRAWING FOR BUILDING CONSTRUCTION II **2 UNITS**
Hours: **2 Lecture/Discussion**
2 Lab
Materials Fee: \$5.00
 A required course in drawing for all building trades students. The fundamentals of architectural drafting, blueprint reading, details, symbols, codes and specifications are covered. The ceiling framing plan, roof framing plan, sections, elevations, and electrical plans for the Project House are developed in this course.
Advisory On Recommended Preparation: BLD TR 100, 104, and CT 114 or equivalent college courses with "C" or better. BLD TR 105 and CT115 should be taken concurrently.

BLD TR 104 CARPENTRY I, RESIDENTIAL CONSTRUCTION **3 UNITS**
Hours: **3 Lecture/Discussion**
6 Homework
 An introductory lecture course in residential construction that covers the various phases of house building as they occur on the job. Nomenclature, fasteners, building layout, insulation and roofing are the topics covered in this course.
Advisory On Recommended Preparation: BLD TR 100 and CT114 should be taken concurrently.

BUILDING TRADES

BLD TR 105 CARPENTRY II, RESIDENTIAL CONSTRUCTION **3 UNITS**
Hours: **3 Lecture/Discussion**
6 Homework
 The second course in residential construction that covers various phases of house building as they occur on the job. Drywall, interior finish work, exterior finish work are the primary subjects in this course.
Advisory On Recommended Preparation: BLD TR 100, 104, CT114 or equivalent college course with "C" or better. BLD TR 101 and CT115 should be taken concurrently.

BLD TR 108 ADVANCED CARPENTRY I, ROOF FRAMING **3 UNITS**
Hours: **3 Lecture/Discussion**
4 Lab
2 Homework
 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.
Advisory On Recommended Preparation: BLD TR 101, 105, CT115, or equivalent college course with "C" or better. BLD TR 118 should be taken concurrently.

BLD TR 109 ADVANCED CARPENTRY II STAIR BUILDING **3 UNITS**
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.
Advisory On Recommended Preparation: BLD TR 100, 104, 105, 108, CT 114 and CT 115 or equivalent college courses with "C" or better, or equivalent trade experience and recommendation of department. BLD TR 119 should be taken concurrently.

BLD TR 118 RESIDENTIAL CONSTRUCTION III **4 UNITS**
Hours: **3 Lecture/Discussion**
3 Lab
 The third project house class, this is an advanced study of house construction, covering the many phases of, safety, the layout and construction of the foundation, underpinning, floor joist and subfloor, plates and walls, ceiling joist, rafters, and the different kinds of roof covering. Also included in the course of study is, the use of materials and trade nomenclature.
Advisory On Recommended Preparation: BLD TR 100, 101, 104, 105, CT 114, and CT 115 or equivalent college courses with "C" or better, or equivalent trade experience and recommendation of department. BLD TR 108 should be taken concurrently.

BLD TR 119 RESIDENTIAL CONSTRUCTION IV **4 UNITS**
Hours: **3 Lecture/Discussion**
3 Lab
6 Homework
 The fourth class in the Building Trades program that provides theory as well as hands-on learning by constructing a house which includes building layout, construction of ceiling and roof framing systems, roof covering, plumbing, window and door installation, and insulation.
Advisory On Recommended Preparation: BLD TR 118 or equivalent college course with "C" or better, or skills and knowledge as determined by department assessment. BLD TR 109 should be taken concurrently.

BUILDING TRADES

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

This course is a basic remodeling course with no prerequisites. This 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 INTRODUCTION TO BUILDING TRADE 4 UNITS
149a-d 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 millwork covering: tool and machine safety, identification of hand tools, hand power tools and machines used in the cabinet shop, proper use 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 BASIC CABINETMAKING 4 UNITS
162a-b
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, proper use 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.

Advisory On Recommended Preparation: Building Trades experience or department recommendation.

BLD TR COMMERCIAL CABINET CONSTRUCTION 3 UNITS
163a-b
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. It is of great value to the person pursuing a career in drafting, interior decorating, architecture or construction.

Advisory On Recommended Preparation: CT 150 or BLD TR 162a or equivalent college course with "C" or better, or equivalent trade experience and recommendation of department.

BLD TR MULTIPLE RESIDENTIAL FIRE 2 UNITS
180 SPRINKLERS
Hours: 1.5 Lecture/Discussion
1 Lab

Building Trades 180 trains and educates the student to inspect and/or design fire sprinkler systems for homes, apartments and motels. The course is for sprinkler contractors, fire inspectors and building inspectors and interested home owners. The course requires one and one-half hours per week of lectures with extensive class participation. One hour per week will be used to layout and design fire sprinkler systems. At least two hours per week will be required to fulfill homework assignments.

BLD TR PLUMBING 3 UNITS
205a-d
Hours: 2 Lecture/discussion
3 Lab
4 Homeowrk hours

This is a basic course in plumbing for individuals who wish to pursue a plumbing career or for their general knowledge. This course teaches basic plumbing theory, materials and installation procedures. This is done in the classroom and through the plumbing of a house. This course is repeatable one time.

BUILDING TRADES

BLD TR RESIDENTIAL WIRING 3 UNITS
270a-b
Hours: 3 Lecture hours
6 Homeowrk hours

This course covers theory and application of electrical principals and practices currently used in the design and installation of residential electrical systems. The students will learn circuit design criteria, and proper methods of component installation for main service entrance panels, sub-panels, and branch circuits with multiple switching locations utilizing the applicable codes and regulations. This course may be repeated one time.

BUSINESS

BUS 18 BUSINESS LAW 4 UNITS
Hours: 4 Lecture/Discussion

This course is an introduction to the American legal system. Topics include sources of law; administrative, criminal, tort, labor law; economic regulation and legal aspects of international trade; ethics, labor, agency law, and computer torts. CAN BUS 12

BUS 20 BUSINESS STATISTICS 3 UNITS
Hours: 3 Lecture/Discussion

This course is intended for business administration majors or anyone who wishes to gain an understanding of elementary data analysis, probability and statistics. The main course content incorporates the techniques and applications of probability, data analysis, and statistics such that the student will acquire a working knowledge of those statistical principles and methods of analysis which will be of material benefit in analyzing and interpreting data and for conducting independent research of business and economic problems. A high level of mathematical business and economic problems. A high level of mathematical sophistication and dedication is required for successful completion of this course.

Prerequisite: MATH 230 or equivalent college course with "C" or better; or eligibility determined by COS Placement Procedures. Placement testing requirement may be waived (see Matriculation Policies; Exemption Criteria for Assessment).

BUS 25 CONSTITUTIONAL LAW INTERPRETATION: 3 UNITS
CIVIL LIBERTIES, FACT AND FALLACY
Hours: 3 Lecture/Discussion
Cross Ref: Poli Sci 25
AJ 25

This course allows students to study and apply logic and critical thinking to written and oral communication through the study of the fundamental rights as protected by the United States Constitution. Business 25 will develop an understanding of the role of the courts and key court cases interpreting individual rights. Students will develop the skills to analyze others' arguments, produce their own arguments and develop solutions to problems utilizing the case study method in legal research and analysis. Students will be required to write a total of 6,000 to 8,000 words.

Advisory On Recommended Preparation: ENGLISH 1 and SPEECH 1 or equivalent college courses with "C" or better.

BUS 82 INTRODUCTION TO BUSINESS 3 UNITS
Hours: 3 Lecture/Discussion

Business 82 is an introductory course which examines the business enterprise. The course covers a wide range of topics which include social responsibility and business ethics; business organization and functions; the historical, environmental and economic setting of business; the human resource; the structure of American business; and management of business. For the business major, this course assists him/her in choosing an area of specialization and an orientation to the business administration field. For other students, this course will show them how the business system affects them in their role as wage earner or consumer.

Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

Course Descriptions

BUSINESS

- BUS 119 QUANTITATIVE METHODS 3 UNITS**
Hours: 3 Lecture/Discussion
This is an introductory course for Business Administration majors designed to develop an appreciation of the value of quantitative methods in decision-making by formulation and solution of common business problems. Topics include linear models, matrix algebra, linear programming, finance, and an introduction to probability.
Prerequisite: MATH 230 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures. Placement testing requirements maybe waived (see Matriculation Policies; Exemption Criteria for Assessment).
- 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.
Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.
- BUS 160 BEGINNING KEYBOARDING 3 UNITS**
Hours: 2 Lecture/Discussion
2 Lab
1 Homework
Materials Fee: \$5.00
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.
- BUS 161 INTERMEDIATE KEYBOARDING 3 UNITS**
Hours: 2 Lecture/Discussion
2 Lab
2 Homework
Materials Fee: \$5.00
Business 161 is an intermediate course with emphasis on business correspondence, forms, tables, manuscripts, and production keyboarding. The student will review the fundamentals of keyboarding and will strive to improve his/her speed and accuracy not only on straight copy materials but on forms and letters as well.
Advisory On Recommended Preparation: BUS 160 or equivalent college course with "C" or better, or one year of previous keyboarding/typing instruction.
- BUS 162 ADVANCED KEYBOARDING 3 UNITS**
Hours: 2 Lecture/Discussion
3 Lab
Materials Fee: \$5.00
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 an understanding of typical office problems such as keyboarding letters, legal documents, manuscripts, and business forms. Students are given experience in various types of office assignments including general offices, medical offices, legal offices, government, and financial offices.
Advisory On Recommended Preparation: BUS 161 or equivalent college course with "C" or better; and keyboarding speed of 40 cwpm.
- BUS 170 INTRODUCTION TO SALES 3 UNITS**
Hours: 3 Lecture/Discussion
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.
Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

BUSINESS

- BUS 171 APPLIED PROFESSIONAL SALESMANSHIP 3 UNITS**
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.
- BUS 174 MARKETING PRINCIPLES 3 UNITS**
Hours: 3 Lecture/Discussion
This course provides basic understanding of marketing principles as well as training and experience in planning, producing, storing, promoting, selling and distributing commodities.
- BUS 184 BUSINESS COMMUNICATIONS 3 UNITS**
Hours: 3 Lecture/Discussion
Materials Fee: \$5.00
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 word processing software so that rewrites can be done easily. Business communication theory will be introduced. The student will learn the techniques of written and oral communications helpful in handling common business transactions--letters, memos, and reports.
Advisory On Recommended Preparation: ENGLISH 251 or BUS 293 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures; and computer word processing skills.
- BUS 185 ETHICS IN BUSINESS AND INDUSTRY 3 UNITS**
Hours: 3 Lecture/Discussion
Cross Ref: I&T 185
This course is designed to better prepare students to deal with the many moral dilemmas they will inevitably face in their personal and professional lives. The focus of the class will be primarily on the application of ethics to contemporary issues occurring in today's business and industry. Students will research, discuss, analyze and reflect on issues such as accountability, loyalty, confidentiality, honesty, justice, education, discrimination, etc.
- BUS 188 HUMAN RELATIONS IN BUSINESS 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.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 as determined by COS Placement procedures.
- BUS 230 SUPERVISION-MANAGEMENT FOR THE FIRST-LINE SUPERVISOR 3 UNITS**
Hours: 3 Lecture/Discussion
Business 230 is designed to begin the process leading to a career in supervision or the first step toward higher management. This course will provide information to address the need for a cooperative effort among workers and their managers, and building a foundation necessary to practice successful supervision. Topics include obtaining and training an employee, appraising employee performance, counseling employees, handling discipline and grievances, understanding the group dynamics of an organization, understanding unions, coping with ethics and institutional politics, increasing productivity, and self-appraisal.
Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

BUSINESS

BUS 231 STARTING A NEW BUSINESS 3 UNITS
Hours: 3 Lecture/Discussion

This course prepares students for the many challenges of opening a new business. Students will learn about business plans, management, marketing and finances. They will also have a better understanding of the risks and opportunities presented when starting a new business.

Advisory On Recommended Preparation: Any general business class or previous business experience.

BUS 256 MEDICAL TERMINOLOGY 3 UNITS
Hours: 3 Lecture/Discussion

This 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.

Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

BUS 258 PEOPLE, PROCEDURES, & TECHNOLOGY FOR THE OFFICE PROFESSIONAL 4 UNITS
Hours: 4 Lecture/Discussion

A comprehensive course that prepares students to develop appropriate behaviors, attitudes and skills required to be successful as an office professional. Theory and basic principles of employer-employee relations, coworker relations, diversity issues, ethnics, business ethics, effective work habits, TQM principles, word processing applications, recordkeeping and transcription skills will be developed through classroom instruction and collaborative learning. This subject matter will be treated with a scope and intensity which will require students to study and utilize the computer lab independently outside of class time.

Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures; computer word processing skills; and intermediate keyboarding skills.

BUS 260 CAREER DRESSING 1 UNIT
Hours: 1 Lecture/ 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.

BUS 265 RETAIL CAREER PREPARATION 1 UNIT
Hours: SHORT TERM CLASS: TOTAL HOURS 52.5
 17.5 Lecture
 35 Homework

Cross Ref: FASH 265

This course will help students prepare for employment in retail and sales. Instruction will emphasize job search techniques, resume, application and correspondence related to job search, interview and portfolio preparation and interview skills will also be enhanced towards the end of the certificate program.

Advisory On Recommended Preparation: It is advised for students to take this course the same semester they take WRK EXP 193.

BUS 266 PROFESSIONAL EMPLOYMENT PREPARATION 3 UNITS
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.

Advisory On Recommended Preparation: ENGLISH 251 or BUS 293 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

BUSINESS

BUS 268 ELECTRONIC CALCULATING 2 UNITS
Hours: 2 Lecture/Discussion
 4Homework

Material Fee: \$4.00

This course introduces the students to the ten-key pad. Students will develop speed and accuracy using the touch methods, review the principles of arithmetic, and transfer the skills to the solution of business problems.

Advisory On Recommended Preparation: BUS 395 or MATH 360 or equivalent college courses with "C" or better, or recent completion of an arithmetic class.

BUS 293 BUSINESS ENGLISH 3 UNITS
Hours: 3 Lecture/Discussion

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 fundamentals 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.

Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

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

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.

Advisory On Recommended Preparation: BUS 395 or MATH 360 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures.

BUS 297 PERSONAL FINANCE 3 UNITS
Hours: 3 Lecture/Discussion

In this course open to both business and nonbusiness majors, students gain knowledge of personal income and expenditures. To be discussed are such topics as savings accounts; investments; borrowing money; budgets, charge accounts and installment buying; property, income, estate, inheritance and gift taxes; life, health, accident, property, and miscellaneous insurance; pension plans and social security; trust funds and wills; inflation and business cycles; and problems of owning a house.

BUS 307a-c INTRODUCTION TO WORD PROCESSING FOR ESL 1 UNITS
Hours: Short-term Class (48 Hours)
 Total Hours: 9 Lecture/Discussion; 17 Lab; 22 Homework

This course is a lecture/lab which is designed to introduce ESL students to a word processing program. Students will learn how to create basic documents as well as the correct document formatting for letters and reports. This course is repeatable two times.

Advisory on Recommended Preparation: Keyboarding speed of 20 cwpm.

Limitation on Enrollment: Computer 307a-c is limited to students enrolled in the ESL program. It will be taught in the classroom designated for the ESL students. The Business division offers Computer 306 for all other students and the courses are the same.

BUS 360a-c ELEMENTARY KEYBOARDING 1 UNIT
Hours: SHORT TERM CLASS: (26 total hours)
 9 Lecture/Discussion
 17 Lab

Materials Fee: \$5.00

This course is a lecture/lab course which is designed to introduce the student to the computer keyboard. Students will use the touch method to key letters, numbers, symbols, and the numeric keypad. This course is repeatable two times.

Course Descriptions

BUSINESS

BUS 361a-c ELEMENTARY KEYBOARDING FOR ESL STUDENTS 1 UNIT

Hours: SHORT TERM CLASS: (26 total hours)
9 Lecture/Discussion
17 Lab

Materials Fee: \$5.00

This course is a lecture/lab course which is designed to introduce the ESL student to the computer keyboard. Students will use the touch method to key letters, numbers, symbols, and the numeric keypad. This course is repeatable two times.

BUS 395 REVIEW OF ARITHMETIC FOR BUSINESS 3 UNITS

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.

CALIFORNIA DAIRY TRAINING INSTITUTE

CDTI 201 FLUID STREAM 1 UNITS

Hours: SHORT TERM CLASS (Total Hours: 48)
18 Lecture/Discussion
30 Homework

Introduction to the basic elements of routing and uses of fluid milk throughout the dairy plant. Demonstrations of how fluids are utilized. Process flow from incoming raw milk throughout the plant to pasteurized finished products.

CDTI 202 GMP AND SANITATION 1 UNITS

Hours: SHORT TERM CLASS (Total Hours: 48)
18 Lecture/Discussion
30 Homework

Introduction to Dairy Plant Sanitation, Good Manufacturing practices (GMP) guidelines and implementation, chemicals, pH and their roles in functional cleaning of the dairy plant and associated equipment.

CDTI 203 INDUSTRIAL SAFETY 1 UNITS

Hours: SHORT TERM CLASS (Total Hours: 48)
18 Lecture/Discussion
30 Homework

Introduction to the elements of industrial safety as it relates to a dairy processing facility. topics to be covered: illness and injury prevention, confined space entry, lock-out tag-out programs, hazard communication programs, and industrial lift programs.

CDTI 205 HACCP AND FOOD SAFETY 1 UNITS

Hours: SHORT TERM CLASS (Total Hours: 48)
18 Lecture/Discussion
30 Homework

An introduction to Hazardous Analysis Critical Control Point programs in the dairy processing facility. Importance of HACCP programs and identification of Critical Control Points. Class will demonstrate how to set up and implement a HACCP program.

CHEMISTRY

CHEMISTRY GENERAL CHEMISTRY 1 5 UNITS

Hours: 3 Lecture
6 Lab

A study of the fundamental theories and laws of chemistry with emphasis on the mathematical treatment as well as the underlying concepts and principles. Topics include stoichiometry, atomic structure, bonding, theories, ionic reactions and properties of gases. 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. The recommended prerequisites are the minimum necessary to prepare the students for the depth of theory and rigor of calculations. CAN CHEM 2.

Prerequisite: CHEMISTRY 20 or 253 or equivalent college course with "C" or better, or high school chemistry with "C" or better in both semesters; and MATH 230 or equivalent college course with "C" or better, or eligibility for MATH 21, 45, 61, 70, 75 or 154 determined by COS Placement Procedures.

CHEMISTRY GENERAL CHEMISTRY 2 5 UNITS

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. CAN CHEM 4.

Prerequisite: CHEMISTRY 1 or equivalent college course with "C" or better.

CHEMISTRY ANALYTICAL CHEMISTRY 5 5 UNITS

Hours: 3 Lecture/Discussion
6 Lab

Fundamental principles and methods of quantitative analysis with a theoretical treatment of the laws and theories which apply. For students interested in medicine, chemistry, clinical work, petroleum, or chemical industries. This is a laboratory course for the chemistry major or other major who will use quantitative analysis. CAN CHEM 12

Prerequisite: CHEMISTRY 2 or equivalent college course with "C" or better.

CHEMISTRY ORGANIC CHEMISTRY 12 5 UNITS

Hours: 3 Lecture/Discussion
6 Lab
6 Homework

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 and biology majors, premedical, pre dental students, prepharmacy and medical technicians. Emphasis is on structural and functional group chemistry studied from a synthetic and mechanistic point of view. Topics include: nomenclature, stereochemistry, free radical processes, structure, bonding, hybridization of carbon compounds basic elimination and substitution reactions, introductory infrared and nuclear magnetic resonance spectroscopy.

Prerequisites: CHEMISTRY 2 or equivalent college course with "C" or better.

CHEMISTRY ORGANIC CHEMISTRY 13 5 UNITS

Hours: 3 Lecture/Discussion
6 Lab
6 Homework

This is a continuation of Chemistry 12, a comprehensive study of organic chemistry. The course, taught at a sophomore level, is primarily for chemistry, biochemistry and biology majors, premedical, pre dental, prepharmacy students, and medical technicians. Emphasis is on structural and functional group chemistry studies from a synthetic and mechanistic point of view. Topics include: reactions of aromatic compounds, condensations, natural products chemistry, introductory bio-chemistry, mass spectrometry and ultraviolet/visible spectroscopy. The course includes a laboratory study of micro methods and techniques, synthesis and instrumentation.

Prerequisite: CHEMISTRY 12 or equivalent college course with "C" or better.

CHEMISTRY

CHEMISTRY GENERAL CHEMISTRY

20 **4 UNITS**
Hours: 3 Lecture/Discussion
 3 Lab
 6 Homework

Chemistry 20 is the first semester of a full year (Chemistry 20-21) college chemistry course which is designed to meet the needs of the science related major, e.g., nursing, agriculture, physical therapy, dental hygiene, X-ray technician, or general education. The course is a study of the fundamental theories and laws of chemistry including such topics as the metric system, atomic and molecular structure, bonding, nomenclature of inorganic compounds, stoichiometry, chemical equations, gas laws, water, liquids and solutions. The laboratory portion of the course involves experimentation and drawing conclusions from that experimentation, including understanding the limitation of experimental data. CAN CHEM 6.

Prerequisites: MATH 200 or 215 or Math 205, or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures.

Advisory On Recommended Preparation: CHEM 253 or equivalent college course with "C" or better, or high school chemistry with "C" or better in both semesters.

CHEMISTRY GENERAL ORGANIC AND BIOLOGICAL CHEMISTRY

21 **4 UNITS**
Hours: 3 Lecture/Discussion
 3 Lab

Chemistry 21 is the second semester of a full year (Chemistry 20-21) college chemistry course which is designed to meet the needs of the science-related major, e.g., physical therapy, dental hygiene, nursing. The content focuses on the structural configurations, isomerism, properties and reactions of organic and biochemical compounds. Both qualitative and quantitative aspects of these compounds are part of the lecture and laboratory. Topics include hydrocarbons, alcohols, ethers, carbonyl compounds and their derivatives, polymers, carbohydrates, lipids, proteins, nucleic acids, bioenergetics and metabolism review. CAN CHEM 8

Prerequisite: CHEMISTRY 20 or equivalent college course with "C" or better.

CHEMISTRY GENERAL AND BIOLOGICAL CHEMISTRY

130 **4 UNITS**
Hours: 3 Lecture/Discussion
 3 Lab
 9 Homework

The theme of this course is the molecular basis of life. It will cover the essential concepts of inorganic, organic, and biochemistry. Inorganic topics include atomic theory, stoichiometry and solution chemistry. Topics for organic and biochemistry are chosen to enhance the basic understanding of living processes.

Advisory on Recommended Preparation: Completion of MATH 200 or placement in MATH 230 as determined by the COS Placement Procedures.

CHEMISTRY INTRODUCTION TO THE SCIENCE OF CHEMISTRY

253 **3 UNITS**
Hours: 3 Lecture/Discussion
 2 Lab
 6 Homework

This is a one-semester elementary class for students who have never taken high school chemistry or whose previous work in chemistry did not prepare them for CHEMISTRY 20. The course will prepare students for success in CHEMISTRY 20 by giving them a basic background in matter, energy, chemical reactions, measurements, formula writing, nomenclature, chemical calculations and a review of elementary algebra.

Advisory On Recommended Preparation: MATH 200 or 215 or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures.

CHILD DEVELOPMENT

CHLD CHILD DEVELOPMENT-DS 1 3 UNITS
DEV 39
Hours: 3 Lecture/Discussion
 6 Homework

Cross Ref: PSYCH 39
(Approved for Distance Learning)

This course studies the development of humans from conception to adolescence in the areas of cognition, physical growth and development, language, and social development. The course includes, theory, history and systems, application and practice of pertinent concepts in developmental psychology. CAN H EC 14.

CHLD CHILD DEVELOPMENT 1 UNIT
DEV 39M3 Middle Childhood & Adolescence (Modular Training)

Total Hours: 17.5 hours SHORT TERM CLASS

Cross Ref: PSYCH 39M3

THIS CLASS IS U.C. TRANSFERABLE ONLY IF ALL THREE MODULES ARE COMPLETED TO EQUAL CHLD DEV 39, 3 UNIT CLASS.

This course (one of three CHLD DEV 39 modules required for the Child Development Certificate and for U.C. transfer) studies the development of humans from the middle school age years through adolescence-age six through age twenty two, in the areas of cognition, moral development, and social/emotional development. NOT open to students who have previously received credit in CHLD DEV 39.

CHLD CHILD, FAMILY AND SOCIETY-DS 2 3 UNITS
DEV 42
Hours: 3 Lecture/Discussion
 6 Homework

A study of the social development of young children with emphasis on family, child care and community resources. Content will include public policy, child advocacy, and the current social issues and concerns. This course is required for the Child Development Permit and the core curriculum for employment in child care center.

CHLD CHILDREN'S NUTRITION 3 UNITS
DEV 112
Hours: 3 Lecture/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. An appropriate course for students in education and social services.

CHLD CHILD ABUSE 2 UNITS
DEV 134
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 judicial system roles relating to child abuse will be examined.

CHLD MUSIC EXPERIENCES IN 1 UNIT
DEV 135 EARLY CHILDHOOD EDUCATION- DS 3
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.

CHLD CHILDREN'S LITERATURE-DS 3 2 UNITS
DEV 136
Hours: 2 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.

Course Descriptions

CHILD DEVELOPMENT

CHLD DEV 137	SCIENCE EXPERIENCES IN EARLY CHILDHOOD EDUCATION-DS 3	1 UNIT
Hours:	1 Lecture/Discussion	
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.		
CHLD DEV 138	SCIENCE EXPERIENCES IN SCHOOL-AGE EDUCATION	1 UNIT
Hours:	SHORT TERM CLASS 17 Lecture/Discussion 34 Homework	
This course provides an overview of science activities appropriate for the school-age environment. Students participate in preparation and completion of various science activities. The theory behind the science activities is also covered. Students will develop materials and methods appropriate for the school-age child.		
CHLD DEV 140	PRINCIPLES IN EARLY CHILDHOOD EDUCATION-DS3	3 UNITS
Hours:	2 Lecture/Discussion 3 Lab 4 Homework	
This course is designed for observation and study of young children in a laboratory setting in preparation for working with diverse families in the classroom setting and in the community. It includes study of behavior in children, theory, curriculum, best teaching practice and assessment. Prerequisite: A T.B. clearance must be obtained prior to participation in lab exercises.		
CHLD DEV 141	PRACTICE IN EARLY CHILDHOOD EDUCATION-DS 3	3 UNITS
Hours:	2 Lecture/Discussion 3 Lab 4 Homework	
This course is designed to prepare the student for classroom teaching, curriculum, development and objective writing. Laboratory experience is a direct contact with children in a functioning program as a classroom teacher. Prerequisite: CHLD DEV 140 or equivalent college course with a "C" or better. Prerequisite: A tuberculin test clearance must be obtained prior to participation in lab exercises.		
CHLD DEV 142	MENTOR TEACHER	2 UNITS
Hours:	2 Lecture/Discussion 4 Homework	
Methods and principles of supervising student teachers in early childhood classrooms. Emphasis on the role of experienced classroom teachers who function as mentors to new teachers while simultaneously addressing the needs of children, parents and other staff. Prerequisite: CHLD DEV 141 and CHLD DEV 144 Advisory on Recommended Preparation: Complete AA or AS in Child Development or have a valid California Children's Center Permit.		

CHILD DEVELOPMENT

CHLD DEV 143	ADMINISTRATION OF EARLY CHILDHOOD EDUCATION-DS 6	3 UNITS
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 requirement for directors in licensed child care centers. Prerequisite: CHLD DEV 140 or equivalent college course with "C" or better. Advisory On Recommended Preparation: CHLD DEV 141 or equivalent college course with "C" or better.		
CHLD DEV 144	ADVANCED ADMINISTRATION OF EARLY CHILDHOOD EDUCATION-DS6	3 UNITS
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 writing, goal setting, marketing, business plans, evaluation and accreditation. Fulfills the state requirement for directors in licensed child care centers. CD 143 and 144 together fulfill the requirements for a California Supervisory Center Permit. Prerequisites: CHLD DEV 143 or equivalent college course with "C" or better. Advisory On Recommended Preparation: CHLD DEV 141 or equivalent college course with "C" or better.		
CHLD DEV 145	PARENTING	3 UNITS
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.		
CHLD DEV 146	EXCEPTIONAL CHILD	3 UNITS
Hours:	3 Lecture/Discussion 6 Homework	
A study of characteristics of children with disabilities. Focus will be on etiology, legislation, curriculum, interventions, role of the teacher and family issues. CHLD DEV 146 fills 3 of the required 12 units for ECE employment in California and is required for the Child Development-Option II-Early Childhood Special Education Certificate.		
CHLD DEV 147	INFANT/TODDLER CARE AND DEVELOPMENT	3 UNITS
Hours:	3 Lecture/Discussion 6 Homework	
A study of the development and care of the infant/toddler. Includes areas of social/emotional development, nutrition, cognitive/motor development, limit setting and language development. Socializing among children/families of diverse backgrounds, play and natural environments appropriate for the typically and atypically developing child will be explored.		
CHLD DEV 148	CHILD HEALTH AND SAFETY-DS 7	3 UNITS
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.		

CHILD DEVELOPMENT

CHLD CREATIVE 2 UNITS
DEV 149a-b ACTIVITIES FOR YOUNG CHILDREN-DS 3
Hours: 2 Lecture/Discussion
1 Lab
4 Homework

Materials Fee: \$5.00

This course is designed to prepare students in Child Development in the planning and preparation of a wide variety of creative activities for use with young children. It has an emphasis on age and developmentally appropriate practice, students will study creative theory and prepare materials for classroom use, focusing on various curriculum areas as well as the seasons and holiday. This course may be repeated one time.

CHLD CREATIVE 2 UNITS
DEV 150 ACTIVITIES FOR YOUNG CHILDREN-DS 3
Hours: 2 Lecture/Discussion
1 Lab

Materials Fee: \$5.00

This course includes the selection, planning and preparation of materials for activities in the Early Childhood Development curriculum. 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 aides, care providers, parents and others who are interested in planning a variety of creative activities for children.

CHLD SCHOOL-AGE 3 UNITS
DEV 152 CHILD CARE-DS 5
Hours: 3 Lecture/Discussion

This course is a study of theory and practice applied to the school- aged child. The content includes teacher training strategies, an overview of the physical, social and cognitive development of the school-aged child, as well as, care providing and teaching settings and community resources. This course investigates a variety of curriculum activities including literature, science, drama, music, physical education and art. It is appropriate for teachers, aides, family day care providers, parents and those wishing to gain experience in working with school-aged children.

CHLD CREATIVE MOVEMENT FOR THE 1 UNIT
DEV 153 CLASSROOM
Hours: SHORT TERM CLASS
17 Lecture
34 Homework

This course investigates various methods of incorporating movement experiences into the early childhood school-age classroom curriculum. The class includes the study of creativity, locomotor skills and perceptual motor development. Appropriate for teachers, care providers, parents and child development students.

CHLD INTRODUCTION TO EARLY 3 UNITS
DEV 154 INTERVENTION
Hours: 3 Lecture/Discussion

As an introductory course in early intervention, this course gives an overview of high risk and handicapped infants, birth to age three, and the treatments, strategies and techniques used to serve them, according to PL99-457. The course is designed to meet the training needs of educators, parents and care providers who will serve this special needs population. The course will cover parent/professional relationships, the normal grief process, identification and assessment, community resources, and developmental curriculum.

CHLD CHILD GUIDANCE 3 UNITS
DEV 155
Hours: 3 Lecture/Discussion
6 Homework

This Child Guidance course is focused on a child-centered approach to problem solving for use by teachers with groups of young children from infancy to school age. The ability to assess and respond to child behavior using positive, age-appropriate methods, will be discussed.

CHILD DEVELOPMENT

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.

CHLD FAMILY DAY CARE 1 UNIT
DEV 157 PRINCIPLES AND PRACTICES
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 daily routines for family day care, parent/provider relationships, problem solving, growth and development, discipline techniques, and avoidance of provider burnout.

CHLD CULTURAL DIVERSITY IN 3 UNIT
DEV 158 EARLY CHILDHOOD EDUCATION
Hours: 3 Lecture/Discussion
6 Homework

Explores cultural and language acquisition issues related to the education of diverse populations of children, and acquaints students with non-bias multicultural teaching strategies and curriculum suitable for young children.

CHLD LITERACY AND LANGUAGE ACQUISITION 3 UNITS
DEV 160 IN CHILDREN
Hours: 3 Lecture/Discussion
6 Homework

This course provides a theoretical framework for how humans acquire language and literacy from early childhood through adulthood. It will provide practical information for developing language and literacy classroom programs which will enhance language development, second language acquisition and cognitive/academic development in culturally diverse contexts.

CHLD TOPICS IN CHILD 1-4 UNIT
DEV 199 DEVELOPMENT/
EARLY CHILDHOOD EDUCATION
Hours: Variable

Materials Fee: \$5.00

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 FOOD EXPERIENCES WITH THE YOUNG CHILD 1 UNIT
DEV 238
Hours: SHORT TERM CLASS: TOTAL HOURS 48
16 Lecture/Discussion
32 Homework hours

This course explores and develops food experiences which can be incorporated into the learning environment of young children. It will include safety and sanitation with young children, recipe development for nonreaders, and simple preparation techniques.

CHLD INTRODUCTION TO CHILD DEVELOPMENT 2 UNIT
DEV 239
Total Hours: 36 Lecture Hours SHORT TERM CLASS
72 Homework hours

Overview of the child care profession. Philosophical/theoretical basis for age-appropriate curriculum for young children. Includes licensing requirements and standards for quality pre-school programs. Units will apply toward a State certification. One hour observation required at COS Child Development Center or mentor site.

CHLD THE SOCIALIZATION OF THE CHILD 2 UNIT
DEV 242
Total Hours: 36 Lecture Hours SHORT TERM CLASS
72 Homework hours

Course covers the early childhood classroom, family and community and their effects on the socialization of the child, including diverse families and community resources. Class time will focus on developmentally appropriate environment in child care programs. Units apply toward a State certificate in child care.

Course Descriptions

CHILD DEVELOPMENT

CHLD CHILD HEALTH, SAFETY, FIRST AID AND CPR 1 UNIT
DEV 248

Total Hours: 17.5 Lecture Hours SHORT TERM CLASS
35 Homework hours

A study of health care and safety of infants and young children. Pediatric first aid and CPR are included. Successful completion of the course may lead to American Red Cross First Aid and CPR certification. This course can be applied towards a child development permit and meets the Health and Safety training requirement for Family Day Care.

CHLD INTRODUCTION TO PRESCHOOL ACTIVITIES 2 UNITS
DEV 249

Total Hours: 36 Lecture Hours SHORT TERM CLASS
72 Homework hours

Course prepares students for employment in child care or continued education in child development. Focus is on planning, preparing materials and presenting curricular activities that are developmentally appropriate. Emphasis is on activities developing and managing learning centers for an ECE environment. Credits apply towards State certificate.

CHLD TOPICS IN CHILD 1-4 UNIT
DEV 299 DEVELOPMENT/
EARLY CHILDHOOD EDUCATION

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 non-transferable.

CINEMA ARTS

CINEMA MOTION PICTURE 2 UNITS
ARTS 31 APPRECIATION

Hours: 1 Lecture/Discussion
2 Lab

Explores 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 31 offered only in the fall semester. Covers the period from the beginning to the present with emphasis on American films.

CINEMA MOTION PICTURE 2 UNITS
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 the spring semester, covers contemporary film 1930 to present, with emphasis on international films.

COMPUTER

COMPUTER INTRODUCTION TO COMPUTER 4 UNITS
5 INFORMATION SYSTEMS

Hours: 4 Lecture/Discussion

Materials Fee: \$6.00

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. Students will learn to use a microcomputer system, how to write some very simple programs, and how to use some important applications software packages—word processing, spreadsheet and data base program. CAN BUS 6.

Advisory On Recommended Preparation: Keyboarding speed of 20 cwpm.

COMPUTER

COMPUTER BASIC PROGRAMMING 3 UNITS
6

Hours: 2 Lecture/Discussion
2 Lab

Materials Fee: \$6.00

This 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. CAN CSCI 6.
Advisory On Recommended Preparation: COMPUTER 5 or 131 or equivalent college course with "C" or better (at a minimum COMPUTER 5 or 131 should be taken concurrently); and keyboarding speed of 20 cwpm.

COMPUTER COBOL PROGRAMMING 4 UNITS
7

Hours: 3 Lecture/Discussion
2 Lab

Materials Fee: \$6.00

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 data files, and on-line systems. CAN CSCI 8.
Advisory On Recommended Preparation: COMPUTER 5 or COMPUTER 131 or equivalent college course with "C" or better (at a minimum COMPUTER 5 or 131 should be taken concurrently); and keyboarding speed of 20 cwpm.

COMPUTER INTRODUCTION TO PERSONAL COMPUTERS 4 UNITS
130 OPERATIONS:

Hours: 4 Lecture/Discussion
8 Homework

Materials Fee: \$6.00

This course is designed to teach students how to use a computer. Topics include an introduction to computer concepts, Windows, word processing, spreadsheet, and database applications. Most transfer Business students should take COMPUTER 5 instead of COMPUTER 130. COMPUTER 130 is not recommended for students who have completed COMPUTER 5.

Advisory On Recommended Preparation: Keyboarding speed of 20 cwpm.

COMPUTER BEGINNING DOS 3 UNITS
131

Hours: 3 Lecture/Discussion

Materials Fee: \$6.00

Computer 131 is a first-semester lecture/discussion microcomputer course covering the basic disk operating system commands of Version 3.3 DOS. Students enrolling in the class will be able to understand the function each DOS command performs and be able to use those DOS commands to perform routine operations such as managing 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.

Advisory On Recommended Preparation: Keyboarding speed of 20 cwpm.

COMPUTER ADVANCED DOS 2 UNITS
132

Hours: 2 Lecture/Discussion
1 Lab

Materials Fee: \$6.00

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.

Advisory On Recommended Preparation: COMPUTER 131 or equivalent college course with "C" or better.

COMPUTER

- COMPUTER DATABASE PROCESSING** 3 UNITS
133
Hours: 3 Lecture/Discussion
6 Homework
Materials Fee: \$6.00
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.
Advisory On Recommended Preparation: Students should be familiar with Windows software and have completed either COMPUTER 5, COMPUTER 130, COMPUTER 131, or COMPUTER 140 or equivalent college courses with "C" or better; and keyboarding speed of 20 cwpm.
- COMPUTER DESKTOP PUBLISHING** 4 UNITS
135 FOR BUSINESS
Hours: 4 Lecture/Discussion
Materials Fee: \$7.00
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, fliers, 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.
Advisory On Recommended Preparation: COMPUTER 131 or equivalent college course with "C" or better; and ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures; and intermediate keyboarding skills.
- COMPUTER WORD PROCESSING USING** 3 UNITS
136 WORD PERFECT
Hours: 3 Lecture/Discussion
Materials Fee: \$6.00
The course is designed to teach the student the WordPerfect word processing program. The pace of the course assumes the student has an entry-level typing skill. This course requires additional computer time. This competency-based course will familiarize the student with advanced operations using proper formatting procedures. An emphasis is placed on language arts skills, proofreading, producing mailable copies (error free), and various applications of information/word processing. This course is designed to fulfill the requirement for the Word Processing Certificate.
Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures; and computer experience; and intermediate keyboarding skills.
- COMPUTER SPREADSHEET DESIGN** 3 UNITS
138 FOR BUSINESS
Hours: 3 Lecture/Discussion
Materials Fee: \$6.00
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.
Advisory On Recommended Preparation: Keyboarding speed of 20 cwpm and microcomputer experience.

COMPUTER

- COMPUTER WINDOWS** 2 UNITS
139
Hours: 2 Lecture
Materials Fee: \$6.00
This course is designed to teach the Windows software program. Students will learn beginning to advanced features of Windows including: getting started and exploring Windows, managing printing, and customizing Windows. An additional two to four hours of computer time will be needed each week to enable a student to complete his/her assignments.
Advisory On Recommended Preparation: Computer 131 or equivalent college course with "C" or better; and keyboarding speed of 20 cwpm.
- COMPUTER WINDOWS AND DOS** 3 UNITS
140
Hours: 3 Lecture
6 Homework
Materials Fee: \$5.00
This course is designed to provide the computer student with a theoretical background to enable him/her to understand the relationship of WINDOWS/DOS to his/her computer. Students will learn how to use this software productively. The course includes practical applications of these two operating systems.
Advisory On Recommended Preparation: Keyboarding speed of 20 cwpm.
- COMPUTER COMPUTER NETWORK ADMINISTRATION** 3 UNITS
142
Hours: 3 Lecture
3 Lab
3 Homework
CROSS REF: ELECT 142
Materials Fee: \$16.00
This is an advanced computer networking concepts course. Students will be introduced to NT Server and NT Workstation. Emphasis will be placed on the creation, administration, maintenance, security, and recovery techniques used by network administrators and technical personnel. Students will also be introduced to diagnostic software, and troubleshooting and repair of networks and network hardware, components and peripherals.
Advisory On Recommended Preparation: ELECT 141 or an equivalent college course with a "C" or better, or equivalent skills and knowledge determined by departmental assessment. Keyboarding speed of 20 cwpm.
- COMPUTER A+ CERTIFICATION** 3 UNITS
143
Hours: 3 Lecture
3 Lab
3 Homework
CROSS REF: ELECT 143
Materials Fee: \$19.00
This is an advanced computer troubleshooting class. Students will be working hands-on with various computer components. Students will also disassemble and reassemble a personal computer and learn how to configure the various components that are integral to the system. Students will be prepared to pass the industry-wide A+ certification exam.
Advisory On Recommended Preparation: ELECT 113 or an equivalent college course with a "C" or better, or equivalent skills and knowledge determined by departmental assessment. Keyboarding speed of 20 cwpm.
- COMPUTER TCP/IP SETUP AND CONFIGURATION** 2 UNITS
144
Hours: SHORT TERM CLASS (Total Hours: 105)
35 Lecture/Discussion
70 Homework
CROSS REF: ELECT 144
Materials Fee: \$15.00
This is an introduction to computer networking concepts using Microsoft TCP/IP Internetworking. The course will cover terminology, acronyms, history of TCP/IP, the development of an IP network, features and functions of TCP/IP, and basic TCP nomenclature as it relates to IP addresses and subnet masks.
Advisory On Recommended Preparation: ELECT 141 or an equivalent college course with a "C" or better, or equivalent skills and knowledge determined by departmental assessment. Keyboarding speed of 20 cwpm.

Course Descriptions

COMPUTER

COMPUTER COMPUTER ACCOUNTING 3 UNITS
210
Hours: 3 Lecture
Cross Ref: Acct 210
Materials Fee: \$6.00
 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.
Advisory On Recommended Preparation: ACCT 1 or 201 or equivalent college course with "C" or better; and microcomputer experience.

COMPUTER ESSENTIAL COMPUTER CONCEPTS 1 UNIT
220
Hours: SHORT TERM CLASS: TOTAL HOURS 54
18 Lecture/Discussion
36 Homework
Material Fee: \$3.00
 This beginning course is designed to give the student a basic familiarity with the personal computer. Topics include what a computer is and how it works, common computer terminology, an introduction to using Windows and the Internet. This course is appropriate for anyone just starting to use a computer or thinking about buying one.

COMPUTER BEGINNING WORD 1.5 UNITS
221a-d
Hours: 1.5 Lecture
3 Homework
Materials Fee: \$4.00
 This course is designed to teach the beginning fundamentals of *Microsoft Word*, a word Processing program. Students will produce business and personal documents using the appropriate *Word* formatting techniques. This course is repeatable three times.
Advisory on Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251; computer experience; and intermediate keyboarding skills.

COMPUTER ADVANCED WORD 1.5 UNITS
222a-d
Hours: 1.5 Lecture
3 Homework
Materials Fee: \$5.00
 This course is designed to teach the advanced fundamentals of *Microsoft Word*, a word processing program. Students will produce business and personal documents using the advanced formatting features of *Word*, (i.e., *WordArt*, *Draw*, borders, frames, clip art, columns). This course is repeatable three times.
Advisory on Recommended Preparation: Eligibility for ENGLISH 251. COMPUTER 221 or equivalent college course with "C" or better, or equivalent experience with *Word*; intermediate keyboarding skills.

COMPUTER BEGINNING EXCEL 1.5 UNITS
223a-d
Hours: 1.5 Lecture
3 Homework
Materials Fee: \$4.00
 This course is designed to teach the beginning fundamentals of *Microsoft Excel* spreadsheet program. Students will learn how *Excel* can be used for business applications. It is recommended for AAAS and certificate students pursuing business careers. Spreadsheet skills are a prerequisite for many business jobs and are also necessary for upper division business courses. This course is repeatable three times.
Advisory On Recommended Preparation: Keyboarding speed of 20 cwpm.

COMPUTER

COMPUTER ADVANCED EXCEL 1.5 UNIT
224a-d
Hours: 1.5 Lecture
3 Homework
Materials Fee: \$5.00
 This course is designed to teach the advanced fundamentals of *Microsoft Excel*, a spreadsheet program. Students will learn how *Excel* can be used for advanced business applications. Spreadsheet skills are a prerequisite for many business jobs and are also necessary for upper division business courses. This course is repeatable three times.
Advisory On Recommended Preparation: Completion of COMPUTER 223 or equivalent college course with "C" or better, or equivalent experience with *Excel*; keyboarding speed of 20cwpm; and MATH 360 or BUSINESS 395 or equivalent college course with "C" or better.

COMPUTER PRESENTATION SOFTWARE FOR BUSINESS 1.5 UNITS
227
Hours: 1.5 Lecture
3 Homework
Materials Fee: \$5.00
 This course will teach the students how to prepare a Business presentation using presentation software. Students will learn how to create a computerized slide show as well as speaker outlines/notes and audience handouts.
Advisory on Recommended Preparation: Computer experience and keyboarding speed of 20 cwpm.

COMPUTER INTRODUCTION TO THE WORLD WIDE WEB 1.0 UNIT
228
Hours: SHORT TERM CLASS: TOTAL HOURS 54
18 Lecture/Discussion
36 Homework
Materials Fee: \$3.00
 This beginning course is designed to give the student a basic familiarity with the World Wide Web. Topics include a brief history of the Internet and World Wide Web, browsing the Web, searching for and locating appropriate Web pages, downloading files, and sending and receiving electronic mail.
Advisory On Recommended Preparation: COMPUTER 5, 130, OR 140 with a grade of "C" or better or familiarity with microcomputers and Windows.

COMPUTER WEB PAGE DESIGN AND DEVELOPMENT 3 UNITS
229
Hours: 3 Lecture
6 Homework
Materials Fee: \$5.00
 This course emphasizes the design and creation of Web pages. Students will learn how to use a Web publishing software program, such as *Microsoft FrontPage*, to create professional-looking web sites. Content includes creating original web images, adding animation, and publishing the finished product on a Web server.
Advisory On Recommended Preparation: COMPUTER 220, COMPUTER 228, LIBRARY 102, or experience with Windows and the Internet.

COMPUTER INTRODUCTION TO THE 1 UNIT
304 SPREADSHEET
Hours: 9 Lecture/Discussion
17 Lab (26 hr. Course)
Materials Fee: \$5.00
 Through the use of microcomputers (DOS-based), the student will become able to use a popular electronic spreadsheet program. Basic concepts of spreadsheets will be explored including layouts, command structure, and mathematical formulas. Various types of business and personal applications to solve any problem that can be placed in columns and rows will be explored. The particular spreadsheet used for any offering of this course may be either *Lotus 123*, *SuperCalc*, *Quattro*, depending upon availability.
Advisory On Recommended Preparation: Keyboarding speed of 20 cwpm.

COMPUTER

COMPUTER INTRODUCTION TO WORDPERFECT 1 UNIT
 306a-c
Hours: SHORT TERM CLASS: (26 hour course)
 9 Lecture/Discussion
 17 Lab

Materials Fee: \$5.00

This course is a lecture/lab course which is designed to introduce students to the WordPerfect word processing program. Students will learn how to create basic documents as well as the correct document formatting for letters, reports, tables, and columns. This course is repeatable two times.

Advisory On Recommended Preparation: Keyboarding speed of 20 cwpm.

COMPUTER INTRODUCTION TO WORDPERFECT FOR 1 UNITS
 307a-c
Hours: SHORT TERM CLASS: (26 hour course)
 9 Lecture
 17 Lab

Materials Fee: \$5.00

This course is a lecture/lab which is designed to introduce ESL students to the WordPerfect word processing program. Students will learn how to create basic documents as well as the correct document formatting for letters, reports, tables, and columns. This course is repeatable two times.

Advisory On Recommended Preparation: Keyboarding speed of 20 cwpm.

Limitation Request on Enrollment: BUSINESS 307a-c is limited to students enrolled in the ESL program. It will be taught in the classroom designated for the ESL students. The Business Division offers Business 306 for all other students and the courses are the same.

CONSTRUCTION TECHNOLOGY

(NOTE: The Building Trades discipline is currently in the process of being renamed "Construction Technology." Some courses have not been changed due to curriculum approval procedures at the college. See "BUILDING TRADES" for further listings of courses in this area of study. You can contact the Industry and Technology Chairperson for any concerns you might have.)

CT 114 RESIDENTIAL CONSTRUCTION I 4 UNITS
Hours: 2 Lecture/Discussion
 6 Lab

The first class in the Building Trades program that provides hands-on learning through the process of constructing a house. The student will participate in the construction of a house including building layout, construction of foundation floor, wall, ceiling and roof systems, roofing, plumbing, insulating and window installation. (Formerly BLD TR 114)

Advisory On Recommended Preparation: BLD TR 100 and 104 should be taken concurrently.

CT 115 RESIDENTIAL CONSTRUCTION II 4 UNITS
Hours: 2 Lecture/Discussion
 6 Lab

The second class in the Building Trades program that provides hands-on learning through the process of constructing a house. The student will participate in the construction of a house including 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 115)

Advisory On Recommended Preparation: BLD TR 100, 104 and CT 114 or equivalent college courses with "C" or better. BLD TR 101 and 105 should be taken concurrently.

CONSTRUCTION TECHNOLOGY

CT 121 RESIDENTIAL CONSTRUCTION 1 7 UNITS
Hours: SHORT TERM CLASS: TOTAL HOURS 378
 9 Week Course
 90 Lecture
 121.5 Lab
 166.5 Homework

Material Fee: \$3.00

The first of four 9-week courses designed to prepare a person for employment in one of the many varied jobs in the building industry. The course teaches the components, systems, processes and design of a single family residence as they apply to the first quarter of its construction as well as cabinet construction. These various elements are taught through the actual construction of a house both on the job and in the classroom. CT 121 leads to a Vocational Certificate in Building Trades or an Associate of Science degree in Building Trades. There are no prerequisites and a student is able to enter the program at any 9 week starting point. Students will be required to furnish their own tool bags, tape measure, texts and classroom supplies.

CT 122 RESIDENTIAL CONSTRUCTION 2 7 UNITS
Hours: SHORT TERM CLASS: TOTAL HOURS 378
 9 Week Course
 90 Lecture
 121.5 Lab
 166.5 Homework

Material Fee: \$3.00

The second of four 9-week courses designed to prepare a person for employment in one of the many varied jobs in the building industry. The course teaches the components, systems, processes and design of a single family residence as they apply to the second quarter of its construction as well as cabinet construction. These various elements are taught through the actual construction of a house, both on the job and in the classroom. CT 122 leads to a Vocational Certificate in Building Trades or an Associate of Science degree in Building Trades. There are no prerequisites and a student is able to enter the program at any 9-week starting point. Students will be required to furnish their own tool bags, tape measure, texts and classroom supplies.

(Formerly BLD TR 122)

CT 123 RESIDENTIAL CONSTRUCTION 3 7 UNITS
Hours: READING, RESIDENTIAL CONSTRUCTION
 SHORT TERM CLASS: TOTAL HOURS 378
 9 Week Course
 90 Lecture
 121.5 Lab
 166.5 Homework

Material Fee: \$3.00

The third of four 9-week courses designed to prepare a person for employment in one of the many varied jobs in the building industry. The course teaches the components, systems, processes and design of a single family residence as they apply to the third quarter of its construction as well as cabinet construction. These various elements are taught through the actual construction of a house, both on the job and in the classroom. CT 123 leads to a Vocational Certificate in Building Trades or an Associate of Science degree in Building Trades. There are no prerequisites and a student is able to enter the program at any 9-week starting point. Students will be required to furnish their own tool bags, tape measure, texts and classroom supplies. (Formerly BLD TR 123)

CT 124 RESIDENTIAL CONSTRUCTION 4 7 UNITS
Hours: SHORT TERM CLASS: TOTAL HOURS 378
 9 Week Course
 90 Lecture
 121.5 Lab
 166.5 Homework

Material Fee: \$3.00

The fourth of four 9-week courses designed to prepare a person for employment in one of the many varied jobs in the building industry. The course teaches the components, systems, processes and design of a single family residence as they apply to the fourth quarter of its construction as well as cabinet construction. These various elements are taught through the actual construction of a house, both on the job and in the classroom. CT 124 leads to a Vocational Certificate in Building Trades or an Associate of Science degree in Building Trades. There are no prerequisites and a student is able to enter the program at any 9-week starting point. Students will be required to furnish their own tool bags, tape measure, texts and classroom supplies. (Formerly BLD TR 124)

CONSTRUCTION TECHNOLOGY

CT 130 MANAGING RESIDENTIAL CONSTRUCTION 3 UNITS
Hours: 2 Lecture/Discussion
 2 Lab
 5 Homework

This course prepares a student for employment in the construction industry at the management or supervision level. Students will study construction resources, manager's relationship with engineers, upper management, internal operations, subcontractors, regulatory officials and utility companies. Students will work with managers from the construction industry.

Advisory On Recommended Preparation: CT 121, 122, 123, 124, COMPUTER 130, or equivalent college courses with "C" or better or equivalent skills and knowledge as determined by division assessment.

CT 134 RESIDENTIAL CONSTRUCTION ESTIMATING 2 UNITS
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

A study of the fundamental concepts theories, 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.

CT 135 BLUEPRINT READING, RESIDENTIAL CONSTRUCTION 2 UNITS
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

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.

CT 138 CONTRACTORS LICENSE LAW 3 UNITS
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 138)

Advisory On Recommended Preparation: Building Trades experience or recommendation of department.

CT 150 FUNDAMENTALS OF CABINET MAKING I 4 UNITS
Hours: 3 Lecture/Discussion
 3 Lab
 6 Homework

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, glues and fasteners. This course is an invaluable career asset for people interested in cabinetmaking, woodworking, or furniture making fields. (Formerly BLD TR 150)

CT 151 CABINETMAKING III, LAYOUT TECHNIQUES 4 UNITS
Hours: 4 Lecture/Discussion
 2 Lab

A study of the fundamental concepts, principles, and applications of cabinetmaking and millwork covering the many phases of cabinet design, safety, use of materials, cabinet hardware, glues, clamps, trade nomenclature, cabinet construction, methods of layout, counter tops, and the installing of cabinets and tops. (Formerly BLD TR 151)

Advisory On Recommended Preparation: CT 150 and CT160 or equivalent college courses with "C" or better, or equivalent trade experience and recommendation of department. CT 161 should be taken concurrently.

CONSTRUCTION TECHNOLOGY

CT 160 CABINETMAKING II CABINETMAKING TOOLS AND MILLWORK 4 UNITS
Hours: 3 Lecture/Discussion
 3 Lab

Materials Fee: \$5.00

A study of the fundamental concepts, principles, and applications of cabinet-making and millwork, woodworking techniques, drawing, layout, and construction. This course is for people interested in cabinetmaking, woodwork, or furniture making careers. (Formerly BLD TR 160)

Advisory On Recommended Preparation: CT 150 or equivalent college course with "C" or better (at a minimum CT 150 should be taken concurrently), or equivalent skills as determined by division assessment.

CT 161 CABINETMAKING IV RESIDENTIAL CABINET CONSTRUCTION 3 UNITS
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, proper use 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 161)

Advisory On Recommended Preparation: CT 150 and CT 160 or equivalent college courses with "C" or better. CT 151 should be taken concurrently.

CT 170 BUILDING SUPERVISION AND INSPECTION - CONCRETE CONSTRUCTION 3 UNITS
Hours: 3 Lecture

This course is 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, soil 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. (Formerly BLD TR 170)

Advisory On Recommended Preparation: Building trade experience or department recommendation.

CT 171 BUILDING SUPERVISION AND INSPECTION-WOOD AND METAL CONSTRUCTION 3 UNITS
Hours: 3 Lecture
 6 Homework

This course is designed to meet the needs of persons desiring employment in the supervision and inspection of building construction. This course will provide the student with an understanding of the scope of their authority and extent of their responsibility on a construction project. The student will develop an understanding for the fundamental engineering properties of wood, metal and paving materials. (Formerly BLD TR 171)

CT 172 BUILDING CODES 3 UNITS
Hours: 3 Lecture

This course is designed to meet the needs of persons desiring employment in the supervision and inspection of building construction and also in the reviewing and checking of building plans for code compliance. This course will provide the student with an understanding of the Uniform Building Code and the California Building Code which is another name for the California Code of Regulations, Title 24, Part 2. The student will develop an understanding of the various sections of the building code and their relationship to each phase of a construction project. They will also develop their ability to research and interpret the many different aspects of the code such as the Administrative requirements, allowable structural qualities of various building materials and the Fire and Life Safety regulations. (Formerly BLD TR 172)

Advisory On Recommended Preparation: Building Trades experience or department recommendation.

CONSTRUCTION TECHNOLOGY

CT 173 BUILDING SUPERVISION & INSPECTION--ELECTRICAL 3 UNITS
Hours: 3 Lecture

This is a fundamental course designed to acquaint the student with methods and techniques used in plan review and field inspection of electrical systems. The necessary mathematics to effectively review plans and specifications for building inspection and project supervision will be included in the course.
 (Formerly BLD TR 173)

Advisory On Recommended Preparation: Employment as craftsperson or inspector in building industry or department recommendation for students involved in Building Trades courses.

CT 174 BUILDING SUPERVISION & INSPECTION-MECHANICAL 3 UNITS
Hours: 3 Lecture

This is a fundamental course designed to acquaint the student with the methods and techniques used in plan review and field inspection of mechanical systems. The necessary mathematics to effectively review plans and specifications for building inspection and project supervision will be included in the course.
 (Formerly BLD TR 174)

Advisory On Recommended Preparation: Employment as craftsperson or inspector in building industry or department recommendation for students involved in Building Trades courses.

CT 175 BUILDING SUPERVISION & INSPECTION-PLUMBING 3 UNITS
Hours: 3 Lecture/Discussion

This is a fundamental course designed to acquaint the student with the methods and techniques of plumbing systems, the plumbing code application, field inspection and supervision of projects. The necessary mathematics to effectively review plans and specifications for building inspection and project supervision will be included in the course. (Formerly BLD TR 175)

Advisory On Recommended Preparation: Employment as craftsperson or inspector in building industry or department recommendation for students involved in Building Trades courses.

CT 176 BUILDING SUPERVISION AND INSPECTION--ARCHITECTURE 3 UNITS
Hours: 3 Lecture

This course is 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 176)

Advisory On Recommended Preparation: Employment as craftsperson or inspector in building industry or department recommendation for students involved in Building Trades courses.

CT 190a-d SUPERVISED PRACTICE 1-3 UNITS
(SEE SUPERVISED PRACTICE)
 (Formerly BLD TR 190a-d)

CONSUMER/FAMILY STUDIES

CFS 6 COLOR AND DESIGN 3 UNITS
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. CAN ART 14

CONSUMER/FAMILY STUDIES

CFS 7 COLOR AND DESIGN 3 UNITS
Hours: 2 Lecture/Discussion
2 Lab

Cross Ref: Art 7

Materials Fee: \$10.00

Advanced course in art with a primary purpose of developing further elements of design into a student's personal style. A continuation of design principles as it applies to art methods. CAN ART 16.

Advisory On Recommended Preparation: ART/CFS 6 or equivalent college course with "C" or better.

CFS 26 MARRIAGE AND FAMILY LIFE 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

Cross Ref: SOC 26

This course covers the following topics in marriage and family: dating and mate-selection, communications and conflict resolution, dual career families, human sexuality, family planning, parenthood, divorce and remarriage, changing gender roles and family economics. CAN H EC 12.

CFS 80 LIFESPAN DEVELOPMENT 3 UNITS
Hours: 3 Lecture/Discussion

A study of human development incorporating the major stages of life from conception to old age and death. Emphasis on physical, cognitive, social, emotional, and moral development. Major topics of human growth include human behavior, theory, sexuality, nutrition, health, stress, and relationships to the social and physical environment.

CFS 186 PERSONAL MANAGEMENT/ CONSUMER ECONOMICS 3 UNITS
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.

CFS 199 TOPICS IN CONSUMER/FAMILY STUDIES 1-4 UNITS
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 UNITS
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 non-transferable.

Course Descriptions

COSMETOLOGY

COSMETOL 261 BASIC COSMETOLOGY 6-12 UNITS
 (Each additional unit is based on 42 hours)
Hours: 3-5 Lecture/Discussion
 12-25 Lab
 6-10 Homework

Cosmetology 261 includes a study of basic scientific theories and techniques as they apply to cosmetology. The course covers the principles of hairstyling, cutting, perming and coloring, in addition to the fundamentals of massage, facials and manicuring. See certificate program information regarding hourly requirements.

Limitation On Enrollment: Admission into a Cosmetology School accredited by the National Accreditation Commission of Cosmetology, Arts and Sciences which has contracted with College of the Sequoias.

COSMETOL 262 INTERMEDIATE COSMETOLOGY 6-12 UNITS
 (Each additional unit is based on 42 hours)
Hours: 3-5 Lecture/Discussion
 12-25 Lab

Cosmetology 262 includes a study and performance of scientific theories and techniques as they apply to cosmetology. The course covers disorders and diseases of the hair and skin, scalp and nails; the application of hairstyling, cutting, perming, coloring, facials and manicuring. See Certificate Program information regarding hourly requirements.

Prerequisite: Completion of COSM 261 with a "C" or better.

COSMETOL 263a-b ADVANCED COSMETOLOGY 6-8 UNITS
 (Each additional unit is based on 42 hours)
Hours: 5 Lecture
 15-25 Lab
 10 Homework

Cosmetology 263a-b is a 10 week course that includes the advanced study and performance of scientific theories and techniques apply to cosmetology. The course covers treatments of the hair, skin, scalp and nails; ethics in cosmetology; and salon business and management skills. The second section will allow refinement of skills, encourage problem solving in more depth, or provide a State Board review.

Prerequisite: Completion of Cosmetology 261 or 262 with a "C" or better.

DAIRY SCIENCE

DAIRY 101 ELEMENTS OF DAIRYING 3 UNITS
Hours: 3 Lecture/Discussion
 1 Lab

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. CAN AG 28.

DAIRY SCIENCE

DAIRY 102 PRINCIPLES OF MILK PRODUCTION 3 UNITS
Hours: 3 Lecture/Discussion
 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 use of antibiotics in dairy cattle.

DAIRY 103 COMMERCIAL DAIRY HERD MANAGEMENT 3 UNITS
Hours: 3 Lecture/Discussion
 1 Lab **Material Fee: \$5.00**

Successfully managing a commercial dairy operation is the goal of this course. Use of computer herd health programs, cost analysis using spreadsheets, and managing techniques are covered. Practical hands-on applications of the decision-making process involving feeding, herd health, labor, and cost of production are covered.

DAIRY 104 BREEDING AND SELECTION OF DAIRY CATTLE 3 UNITS
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.I. will be covered by all students.

DAIRY 105a-d DAIRY CATTLE SELECTION, JUDGING AND SHOWING 1 UNIT
Hours: 1 Lecture/Discussion
 1 Lab

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.

DAIRY 106a-b INTRODUCTION TO DAIRY PRODUCTS TECHNOLOGY 3 UNITS
Hours: 3 Lecture/Discussion
 1 Lab

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 milk manufacturing procedures.

DAIRY 107a-d PRACTICAL SKILLS IN DAIRYING 1 UNIT
Hours: 1 Lecture
 2 Lab
 1 Activity

Dairy Science 107a-d is designed to give students a chance to gain practical skills in dairy production applications. Students will be 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.

DAIRY SCIENCE

DAIRY SCI 200 **APPLIED MECHANICS IN DAIRY SCIENCE** **2 UNITS**
Hours: **2 Lecture/Discussion**
 2 Lab

This course is designed to be part of the Dairy Herdperson's Certificate at COS. The course will focus on the various types of equipment used in the dairy industry today. Basic welding and repair of commonly found equipment and fences on dairies, service and maintenance of dairy equipment such as feed wagons, tractors, skip loaders and trailers will be covered. Barn equipment service and repair will be shown on items such as vacuum pumps, milk pumps, refrigeration equipment, basic electrical devices, pulsators and vacuum regulators. The dairy industry consists of a variety of mechanical devices that students should be able to provide maintenance for.

DANCE

DANCE 6a-d **CHOREOGRAPHY** **1 UNIT**
Hours: **2 Hrs/Week Activity**

Choreography is an introductory course in the study of elements and form of movement theories as applied to the art of creating dance.

DANCE 8a-d **BEGINNING BALLET** **1 UNIT**
Hours: **.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 work, port de bras, and allegro work are also introduced.

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

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.

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

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.

DANCE 13a-b **ADVANCED JAZZ DANCE** **1 UNIT**
Hours: **1 Lecture/Discussion**
 2 Activity

This is 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.

Advisory On Recommended Preparation: DANCE 12a or equivalent college course with "C" or better, or recommendation from the department.

DANCE 16a-b **BEGINNING TAP DANCE** **1 UNIT**
Hours: **.5 Lecture/Discussion**
 1.5 Activity

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 41a-d **MUSICAL THEATER PERFORMANCE** **2 UNITS**
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.

DANCE

DANCE 120a-d **WORLD THEATRE AND DANCE** **3 UNITS**
Hours: **SHORT TERM CLASS: (252 total hours)**
 36 Lecture/Discussion
 216 Activity

Cross Ref: Theatre Arts 120a-d
(ADDITIONAL FEES REQUIRED)

A critical analysis of the Performing Arts (Theatre, Dance, etc.) from an Audience perspective. Elements of play and dance production from the dramatic structure, style, and historical perspective of the script to the final presentation before an audience will be explored. Students will travel to London, New York City, or other sites to attend play and dance performances; backstage excursions, museums; for a two-week stay. Fee will cover roundtrip air fare, transfer to and from airport, hotel room, and some theatre tickets.

DRAFTING

DRAFTING 100 **APPLIED DRAWING** **3 UNITS**
Hours: **3 Lecture/Discussion**
 3 Lab
 3 Homework

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 drafting technology certificate and degree programs.

Advisory On Recommended Preparation: DRAFTING 200 or equivalent college course with "C" or better.

DRAFTING 102 **DESCRIPTIVE GEOMETRY** **4 UNITS**
Hours: **3 Lecture/Discussion**
 2 Lab
 7 Homework

This course is a study of the fundamental theory, concepts and principles of spatial 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. **Advisory On Recommended Preparation:** DRAFTING 100 or equivalent college course with "C" or better; and MATH 220 or equivalent college course with "C" or better or one year high school Geometry with "C" or better (at a minimum Math 220 should be taken concurrently).

DRAFTING 114 **INTRODUCTION TO AUTOCAD** **4 UNITS**
Hours: **3 Lecture/Discussion**
 3 Lab

Materials Fee: \$10.00

This course introduces computer assisted drafting and design workstation hardware, operating systems, and software utilization. Students will set up and generate industrial and architectural drawings with the computer. Invaluable for anyone seeking the knowledge and skills for entry into: architecture, construction, engineering manufacturing, design, drafting and related computer applications.

Advisory On Recommended Preparation: A recent (within 2 years) drafting class or current employment as a drafter.

Course Descriptions

DRAFTING

DRAFTING ADVANCED AUTOCAD 4 UNITS

115
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$10.00

This course utilizes sophisticated computer software to expand upon the fundamental concepts of three dimensional visualization. The students will develop communication skills by generating pictorial drawings, 3-D drawings, surface models, solid models, renderings, and presentation graphics. This course is necessary for anyone seeking requisite knowledge and skills for entry into advertising, architecture, construction, drafting, engineering, interior design, manufacturing, technical illustration/rendering, and numerous computer design related fields.

Prerequisite: DRAFTING 114 or equivalent college course with "C" or better.

DRAFTING AUTOCAD APPLICATIONS 4 UNITS

116a-d
Hours: 3 Lecture/Discussion
2 Lab
4 Homework

Materials Fee: \$10.00

This course will provide advanced AutoCAD students with a systematic approach to rapidly solve drafting and design problems, and generate accurate presentation and scientifically correct conceptual or working drawings utilizing computer image generation skills and knowledge.

Prerequisite: DRAFTING 115 or equivalent college course with "C" or better.

DRAFTING INTRODUCTION TO 4 UNITS

130 COMPUTER ASSISTED CABINET DESIGN
Hours: 3 Lecture/Discussion
2 Lab

A study of the fundamental concepts, principles, and applications of a computerized system covering all phases of cabinet design. By utilizing computers, students will design cabinets, generate cabinet drawings, cutting lists, estimates for material and labor, and contract documents. This course is an invaluable career asset for people interested in architecture, construction, cabinet and furniture manufacturing, drafting, and computer applications.

DRAFTING ADVANCED COMPUTER 4 UNITS

131 ASSISTED CABINET DESIGN
Hours: 3 Lecture/Discussion
3 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 tests, estimates for labor and material, do job costing, and write job contracts. The student will also study the important aspects of: recreating the program parameters, changing the estimating information, changing lumber and labor costs, and saving cabinets to the library file of the program. This course is an invaluable career asset for people interested in architecture, construction, cabinet and furniture manufacturing, drafting, and computer applications.

Prerequisite: DRAFTING 130 or equivalent college course with "C" or better.

DRAFTING GRAPHIC DESIGN 4 UNITS

160
Hours: 3 Lecture/Discussion
2 Lab
7 Homework

Materials Fee: \$10.00

A study of graphic design theory, elements, principles, and methodology as used in graphic communication industry, taught through actual commercial applications. The students interested in art, design and any field of graphic communications will find this course an invaluable asset.

DRAFTING GRAPHIC DESIGN APPLICATION 4 UNITS

161a-d
Hours: 3 Lecture/Discussion
3 Lab
6 Homework

Material Fee: \$10.00

Creative problem solving process as it relates to graphic design utilizing computer image generation skills and knowledge in the conceptualization, refinement, analysis, evaluation, and implementation of graphic design.

Prerequisite: DRAFTING 160 or equivalent college course with "C" or better.

DRAFTING

DRAFTING INTEGRATED GRAPHICS 4 UNITS

162
Hours: 3 Lecture/Discussion
3 Lab
6 Homework

Material Fee: \$10.00

Integrating Design processes as they relate to graphic design utilizing computer image generation skills and knowledge in the conceptualization, refinement, analysis, evaluation, and implementation of multi-media graphic design.

DRAFTING COMPUTER ANIMATION/RENDERING 4 UNITS

170a-d
Hours: 3 Lecture/Discussion
3 Lab
6 Homework

Material Fee: \$10.00

Computer Animation and Rendering is a "hands on" exploration of professional two and three dimensional animation and rendering software for personal computers. Students will learn to communicate their ideas with images and animations created utilizing professional software such as Autodesk 3d MAX. The animated presentations will be played on personal computers, or output to video tape or CD. The course explores applications of computer animation and rendering for business, advertising, industry, law, graphic design, the environmental design professions, education and personal expression.

DRAFT 200 BEGINNING MECHANICAL 2 UNITS

DRAWING
Hours: 2 Lecture/Discussion
2 Lab
2 Homework

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.

DRAFTING CIVIL ENGINEERING 3 UNITS

202 DESIGN
Hours: 2 Lecture/Discussion
2 Lab
5 Homework

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 designer/drafter.

DRAFTING INTRODUCTION TO COMPUTER 2 UNITS

203a-c ASSISTED CIVIL DRAFTING
Hours: 1 Lecture/Discussion
2 Lab
3 Homework

The Civil CAD 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.

Advisory On Recommended Preparation: DRAFTING 114, 115, and 202 or equivalent college courses with "C" or better, or experience using CAD and recommendation of department.

ECONOMICS

ECON 1 PRINCIPLES OF ECONOMICS 1 3 UNITS

Hours: 3 Lecture/Discussion

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. CAN ECON 2.

Advisory On Recommended Preparation: MATH 200 or 215 or MATH 205, or equivalent college course with "C" or better, or one year high school algebra with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures.

ECONOMICS

ECON 2 PRINCIPLES OF ECONOMICS 2 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. CAN ECON 4.

Advisory On Recommended Preparation: Math 200 or MATH 215 or MATH 205, or equivalent college course with "C" or better, or one year high school algebra with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures.

ELECTRONICS

ELECT 101 DIRECT CURRENT CIRCUITS 5 UNITS
Hours: 4 Lecture/Discussion
4 Lab
7 Homework

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. Designed to introduce students to electronics, mathematics, DC circuit analysis, and use of test equipment. Approximately 20 projects will be completed including written lab reports (informal report).

Advisory On Recommended Preparation: MATH 200 or MATH 215 or Math 205, or equivalent college course with "C" or better, or one year high school algebra with "C" or better; and ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures. ELECT 110 should be taken concurrently.

ELECT 102 ALTERNATING CURRENT CIRCUITS 5 UNITS
Hours: 4 Lecture/Discussion
4 Lab
7 Homework

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: ELECT 101 or equivalent college course with "C" or better or equivalent skills and knowledge as determined by departmental assessment.

ELECT 103 SEMICONDUCTOR CIRCUITS 5 UNITS
Hours: 4 Lecture/Discussion
4 Lab
7 Homework

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

Prerequisites: ELECT 102 or equivalent college course with "C" or better or equivalent skills and knowledge as determined by departmental assessment.

ELECT 104 COMMUNICATION CIRCUITS 5 UNITS
Hours: 4 Lecture/Discussion
4 Lab
7 Homework

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 students should be qualified to obtain an F.C.C. general radio telephone commercial license or equivalent. Students should also be able to qualify and pass the general class amateur radio license.

Prerequisites: ELECT 103 or equivalent college course with "C" or better.

ELECTRONICS

ELECT 105 INDUSTRIAL FABRICATION AND DESIGN 3 UNITS

Hours: 2 Lecture/Discussion
2 Lab
5 Homework

Materials Fee: \$5.00

This course offers the student a working knowledge of the tools, techniques, materials, and procedures used in industry to create prototype and production products. The course will include schematic generation, project documentation, chassis layout and finishing, breadboarding, printed wiring board layout and construction system testing and design philosophy.

Prerequisites: ELECT 101 or 110 or equivalent college course with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.

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

Materials Fee: \$3.00

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. This course is the beginning offering in a sequence that begins with Digital Circuits, and continues through Microprocessor Fundamentals, Microprocessor Applications, and PC Troubleshooting/Repair.

ELECT 111 MICRO-PROCESSOR/PLC FUNDAMENTALS 3 UNITS

Hours: 2 Lecture/Discussion
2 Lab
5 Homework

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.

Prerequisites: ELECT 101 and 110 or equivalent college courses with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.

ELECT 112 MICRO-PROCESSOR APPLICATIONS 4 UNITS
Hours: 3 Lecture/Discussion
3 Lab
6 Homework

Materials Fee: \$4.00

This course offers the student a study of advanced microcomputer and microprocessor interfacing techniques. Lectures, demonstrations, and laboratory assignments will study Intel 8085A and 8088 microprocessor-based systems. Special emphasis is placed on "hands-on" laboratory experience with various interface technologies.

Prerequisites: ELECT 101 and 110 or equivalent college courses with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.

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

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 the IBM PC, advanced DOS concepts, understanding assembly programs, diagnostic software, and troubleshooting and repair of all PC components and peripherals.

ELECTRONICS

ELECT 114 OPERATIONAL AMPLIFIER CIRCUITS 3 UNITS
Hours: 2 Lecture/Discussion
 2 Lab
 5 Homework

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.

Prerequisites: ELECT 102 and 103 or equivalent college courses with "C" or better, or permission of department.

ELECT 141 COMPUTER NETWORKING FUNDAMENTALS 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework

This is an introduction to computer networking concepts. Students will be introduced to the technical foundations of networks, topologies, adapters, bindings, protocols, and network administration. Students will also be introduced to diagnostic software, and troubleshooting and repair of networks and network hardware, components and peripherals.

Advisory on Recommended Preparation: Computer experience; possible courses could include any of the following: COMPUTER 6, COMPUTER 130, ELECT 111, ELECT 112, ELECT 113.

ELECT 142 COMPUTER NETWORKING ADMINISTRATION 3 UNITS
Hours: 3 Lecture/Discussion
 3 Lab
 3 Homework

CROSS REF: COMPUTER 142
Material Fee: \$16.00

This is an advanced computer networking concept course. Students will be introduced to a NT Server and a NT Workstation. Emphasis will be placed on the creation, administration, maintenance, security, and recovery techniques used by network administrators and technical personnel. Students will also be introduced to diagnostic software, troubleshooting and repair of network hardware, components and peripherals.

Advisory on Recommended Preparation: ELECT 141 or an equivalent college course with a "C" or better, or equivalent skills and knowledge determined by departmental assessment. Keyboarding speed of 20 cwpm.

ELECT 143 A+ CERTIFICATION 3 UNITS
Hours: 3 Lecture/Discussion
 3 Lab
 3 Homework

CROSS REF: COMPUTER 143
Material Fee: \$19.00

This is an advanced computer troubleshooting class. Students will be working hands-on with various computer components that are integral to the system. Students will be prepared to pass the industry-wide A+ certification exam.

Advisory on Recommended Preparation: ELECT 113 or an equivalent college course with a "C" or better, or equivalent skills and knowledge as determined by department assessment. Keyboarding speed of 20 cwpm.

ELECT 144 TCP/IP SETUP AND CONFIGURATION 2 UNITS
Total Hours: SHORT TERM CLASS
 35 Lecture/Discussion
 70 Homework

CROSS REF: COMPUTER 144
Material Fee: \$15.00

This is an introduction to computer networking concepts using Microsoft TCP/IP Internet working. The course will cover terminology, acronyms, history of TCP/IP, the development of a IP network, features and functions of TCP/IP, and basic TCP nomenclature as it relates to IP Addresses and subnet masks.

Advisory on Recommended Preparation: ELECT 141 or equivalent college course with a "C" or better, or equivalent skills and knowledge as determined by department assessment.

ELECTRONICS

ELECT 190a-d SUPERVISED PRACTICE 1-3 UNITS
 (See *SUPERVISED PRACTICE*)

EMERGENCY MEDICAL TECHNICIAN

EMT 351B EMERGENCY MEDICAL TECHNICIAN B 4 UNITS
Hours: SHORT TERM CLASS (110 total hours)
 3 Lecture/Discussion
 4 Lab (three hours in class; one hour by arrangement)

The Emergency Medical Technician B course is offered to certify students who wish to work in emergency services. It is taught according to United States Department of Transportation 1994 revised EMT Basic National Standard Curriculum. This course will assist students working in police, fire, forestry, or ambulance services, or in hospital emergency rooms. The course emphasizes the development of skills in recognition of symptoms of illness and/or injury and proper procedures for emergency care. This course meets the requirements of the California Department of Health and Tulare County Department of Emergency Services for certification as an EMT B (formerly EMT 1). This course requires a minimum of 110 hours and a valid CPR card from the American Heart Association to meet certification standards.

Limitation Request on Enrollment: Students must be 18 years of age to enroll and possess a current American Heart Association CPR card.

ENABLER SKILLS

ESKL ADAPTED COMPUTER TECHNOLOGY 1-3 UNITS
310a-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
 3 Homework

A descriptive geometry course with an introduction to CAD as it applies to the solution of engineering problems. CAN ENGR 2.

Advisory on Recommended Preparation: MATH 70 or equivalent college course with "C" or better and concurrent enrollment in MATH 75.

ENGR 2 STATICS 3 UNITS
Hours: 3 Lecture/Discussion
 9 Homework

The study of rigid bodies in static equilibrium when acted upon by forces and couples in 2 and 3 dimensional space. Included are equilibrium of rigid bodies, trusses, frames and machines, as well as the calculation of centers of mass, centroids, friction and moments of inertia. Additional topics which may be covered include distributed forces in cables and beams, mass moments of inertia and virtual work.

CAN ENGR 8

Prerequisites: PHYSICS 5 and MATH 76 or equivalent college courses with "C" or better.

Corequisite: MATH 77.

ENGINEERING

ENGR 3 MATERIALS 3 UNITS
Hours: 3 Lecture/Discussion
 2 Lab
 6 Homework

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.

CAN ENGR 4.

Prerequisites: PHYSICS 5, CHEM 1, ENGLISH 1 and MATH 75 or equivalent college courses with "C" or better.

ENGR 4 ALTERNATING CURRENT CIRCUITS 4 UNITS
Hours: 3 Lecture/Discussion
 3 Lab
 9 Homework

The course consists of a fundamental treatment of the principles of electrical circuits, both AC and DC steady-state and transient. CAN ENGR 6.

Prerequisites: PHYSICS 6, and MATH 77 or equivalent college courses with "C" or better.

Corequisite: PHYSICS 7 and MATH 81.

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

This is a one-semester plane surveying course generally taken by civil engineering and land surveying majors. It consists of an introduction to the techniques of calculation and instrument use in field measurements involved in the horizontal and vertical control of civil engineering projects. As course requirements in this area differ widely among majors and options the student should consult the catalog of the intended transfer institution.

CAN ENGR 10.

Prerequisites: MATH 70 or equivalent college course with "C" or better.

Corequisite: MATH 75.

ENGLISH

ENGLISH 1 COLLEGE READING AND COMPOSITION 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework

Approved for Distance Learning/Technology Assisted

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. CAN ENGL 2.

Puente Option: The Puente Program is designed to help students succeed in school, earn degrees at four-year colleges and universities and return to the community as leaders. The content of the course focuses on Mexican-American/Latino authors and issues. Limitation on Enrollment: Acceptance into the Puente Program

Prerequisites: ENGLISH 251 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures.

ENGLISH 1H READING AND COMPOSITION - HONORS 4 UNITS
Hours: 4 Lecture/Discussion

English 1 Honors teaches students intelligent and correct oral and written expression through reading and analysis, discussion and production of various expository styles. It emphasizes various techniques of organization, stylistic variation, clarity, integrating research (especially primary research) into students' work, and close reading of various writers. Idiomatic and grammatical correctness is assumed. English 1 Honors differs from standard English 1 in that students must be accepted into the Honors Program and will enroll concurrently in a one unit colloquium which meets once per week and which culminates in an appropriate semester project.

Prerequisites: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures. Placement Testing requirement may be waived (see Matriculation Policies: Exemption Criteria for Assessment).

Limitation On Enrollment: Acceptance into the Honors Program.

ENGLISH

ENGLISH 2 LOGIC AND COMPOSITION 3 UNITS
Hours: 3 Lecture/Discussion

Approved for Distance Learning/Technology Assisted

This course gives students the opportunity to study and apply logic and cogent thinking to written and oral communication as well as develop advanced writing skills. 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: ENGLISH 1 or equivalent college course with "C" or better.

ENGLISH 4 COLLEGE COMPOSITION AND LITERATURE 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework

Approved for Distance Learning/Technology Assisted

Introduction to literature, including the short story, the novel, poetry, and drama through close reading and analysis of literature and literary theory, discussion, research and writing. CAN ENGL 4.

Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.

ENGLISH 10 CHICANO LITERATURE 3 UNITS
Hours: 3 Lecture/Discussion

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, an 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 or equivalent college course with "C" or better.

ENGLISH 14a-b CREATIVE WRITING 3 UNITS
Hours: 3 Lecture/Discussion

An introduction to writing short stories, poems and plays. This course emphasizes class discussion about student writing. Class members are expected to read professional writers from various books and magazines and should write with the correctness required in English 1. English 14 a-b may be taken twice for credit. English 14a is a beginning course; 14b is a more advanced study of the same topics covered in 14a. After that it may be taken under the community service option. CAN ENGL 6 includes 14a or 14b.

Prerequisite: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures. Placement Testing requirement may be waived (see Matriculation Policies: Exemption Criteria for Assessment).

ENGLISH 15 SURVEY OF BRITISH LITERATURE 1 3 UNITS
Hours: 3 Lecture/Discussion

A survey of English literary history as revealed through an intensive study of some major authors and their typical masterpieces from Beowulf through the period of the Restoration. CAN ENGL 8.

Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.

ENGLISH 16 SURVEY OF BRITISH LITERATURE 2 3 UNITS
Hours: 3 Lecture/Discussion

Complementary course to English 15. A survey of English literary history as revealed through an intensive study of some major authors and their typical masterpieces from the Romantic Period to the present. Note: English 15 is not a prerequisite for English 16. CAN ENGL 10.

Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.

ENGLISH 17 NATIVE AMERICAN LITERATURE 3 UNITS
Hours: 3 Lecture/Discussion

This course explores the images of Native Americans in literature, myths, short stories, essays, autobiographies, novels, poems, and "as-told-to" stories. This exploration may examine common stereotypes of Native Americans in various environments and cultures. Students will be encouraged to connect the course material with their own life experiences.

Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.

Course Descriptions

ENGLISH

- ENGLISH 18 BLACK AMERICAN LITERATURE 3 UNITS**
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.
Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.
- ENGLISH 19 WOMEN IN LITERATURE 3 UNITS**
Hours: 3 Lecture/Discussion
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.
Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.
- ENGLISH 30 U.S. LITERATURE 1 3 UNITS**
Hours: 3 Lecture/Discussion
A broad, general, chronological survey of the literature of the United States and an analysis of major literary works. This segment of the course considers colonial literature, the literature of the early republic, the American Renaissance and the literature of the Civil War years. CAN ENGL 14.
Prerequisites: ENGLISH 1 or equivalent college course with "C" or better.
- ENGLISH 31 U.S. LITERATURE 2 3 UNITS**
Hours: 3 Lecture/Discussion
This broad study of the literature of the United States includes an analysis of literary works through close reading, discussion, and writing. Works studied include representative pieces of literature that have been written from the Civil War to the present. Students will write around 6,000 words of analysis and response to these works. CAN ENGL 16
Note: ENGLISH 30 is not a prerequisite for ENGLISH 31.
Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.
- ENGLISH 32 THE BIBLE AS LITERATURE 3 UNITS**
Hours: 3 Lecture/Discussion
A general survey of the history, biography, prophecy, narratives, poetry, and drama of the Old Testament and Apocrypha from a literary point of view, including some consideration of the historical background and influences.
Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.
- ENGLISH 44 WORLD LITERATURE 3 UNITS**
Hours: 3 Lecture/Discussion
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 or equivalent college course with "C" or better.
- 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.
Note: ENGLISH 44 is not a prerequisite for ENGLISH 45.
Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.
- ENGLISH 45H WORLD LITERATURE-HONORS 4 UNITS**
Hours: 4 Lecture/Discussion
World Literature 45 Honors asks students to explore the richness of diverse cultural traditions by reading, discussing, analyzing, and writing about literature from many sources both in and outside of the Western canon. The time periods during which these works were written range from the eighteenth century until present. English 45H differs from standard English 45 in that students must be accepted into the Honors Program and will enroll concurrently in a one unit colloquium which meets once per week and which culminates in an appropriate semester project.
Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.
Limitation On Enrollment: Acceptance into the Honors Program.

ENGLISH

- ENGLISH 46 SHAKESPEARE 3 UNITS**
Hours: 3 Lecture/Discussion
An introduction to Shakespeare through reading, films, lectures and student reports. The course requires 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 as living theater which should appeal to the ear and the emotions as well as to the intellect.
Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.
- ENGLISH HYPERTEXT: THEORY AND PRACTICE 4 UNITS**
111
Hours: 3 Lecture hours
1 Lab
8 Homework
Hypertext: Theory and Practice introduces students to theoretical, practical, and aesthetic aspects of writing for electronic media such as the World Wide Web and multimedia presentations. Students will develop skills in the design and implementation of hypertext.
Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.
- ENGLISH 200a-d WRITING LAB .5-1 UNITS**
Hours: 1 and 1/2 -3 hrs Lab
Note: Units will be awarded on the basis of numbers of hours/semester in lab. Twenty-four hours in lab earns one-half unit. Course graded CR/NC.
Taken concurrently with any college course requiring written composition. English Composition Writing Lab provides instruction in use of computers and supervision and tutorial assistance to students working on writing assignments in any discipline.
Limitation On Enrollment: Concurrent enrollment in a college course with composition requirements.
- ENGLISH 251 FUNDAMENTALS OF COLLEGE WRITING 3 UNITS**
Hours: 3 Lecture/Discussion
6 Homework
This course emphasizes close reading and writing as processes that result in compositions appropriate for the work world and for transfer level academic study.
Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or recommendation of department.
Limitation Request on Enrollment: One section per year will be limited to students accepted in the PUENTE Program.
PUENTE PROGRAM OPTION:
The Puente Program is designed to help students succeed in school, earn degrees at four-year colleges and universities and return to the community as leaders. The content of the course focuses on Mexican-American/Latino authors and issues. This course is designed to give students a background in basic writing for their work in a vocation or for English 1.
Advisory on Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or recommendation of department.
Limitation on Enrollment: Students must be accepted into Puente Program.
- ENGLISH 253 READING FOR ENRICHMENT 3 UNITS**
Hours: 3 Lecture/Discussion
This course is designed for those who will complete their studies with the AA degree. There will be emphasis on analysis of content in terms of central themes and main ideas, facts and inferences, and recognition of major and minor details. Also included are exercises and techniques for improving reading speed and comprehension, and vocabulary development. Book reports and outside reading are required.

ENGLISH

ENGLISH DEVELOPMENTAL READING 3 UNITS

265a-b
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.

Advisory On Recommended Preparation: Recommendation through COS Placement Procedures, or recommendation of department. The Placement Test requirement may be waived.

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.

Advisory On Recommended Preparation: ENGLISH 370 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or recommendation of department.

ENGLISH READING IMPROVEMENT 4 UNITS

364
Hours: 3 Lecture/Discussion
2 Lab

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.

ENGLISH BASIC ENGLISH SKILLS 6 UNITS

370
Hours: 6 Lecture/Discussion
1 Lab

Basic English skills is the first course in a developmental, precollegiate sequence. The course is designed to review basic grammar, sentence structure, paragraphs and essay writing; 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.

Advisory On Recommended Preparation: Recommendation through COS Placement procedures, or recommendation of department. The placement test requirement may be waived.

ENGLISH AS A SECOND LANGUAGE

ESL 300 ENGLISH AS A SECOND LANGUAGE, 4 UNITS BEGINNING LEVEL 1-WRITING AND GRAMMAR

Hours: 3 Lecture/Discussion
3 Lab
6 Homework

This course is suitable for the true beginner with little or no knowledge of English grammar and writing conventions. Students focus on writing on the sentence level. The course is designed to provide an introduction to English grammar and writing skills to enable students to function minimally both orally and in writing in basic English academic and vocational situations. Students are introduced to basic computer and word processing skills. (Formerly ENGLISH 381)

Advisory On Recommended Preparation: Recommendation through COS Placement Procedures or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 301 (or appropriate ESL Reading/Vocabulary course) is strongly recommended.

ENGLISH AS A SECOND LANGUAGE

ESL 301 ENGLISH AS A SECOND LANGUAGE, 3 UNITS BEGINNING LEVEL 1-READING AND VOCABULARY

Hours: 3 Lecture/Discussion
6 Homework

This course is suitable for the true beginner with little or no knowledge of English reading and vocabulary skills. The course is designed to develop basic reading techniques, vocabulary and study skills so that the student can comprehend and respond to basic written and spoken English. (Formerly ENGLISH 381)

Advisory On Recommended Preparation: Recommendation through COS Placement Procedures or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 300 (or appropriate ESL Writing/Grammar course) is strongly recommended.

ESL 310 ENGLISH AS A SECOND LANGUAGE, 4 UNITS BEGINNING LEVEL 2-WRITING AND GRAMMAR

Hours: 3 Lecture/Discussion
3 Lab
6 Homework

This course is suitable for the beginning student with a basic foundation in English grammar and writing. Students focus on writing accurate sentences and developing paragraph skills. The course is designed to reinforce and build upon grammar and writing skills to enable the students to function both orally and in writing in basic English academic and vocational situations. Students are introduced to basic computer and word processing skills necessary for academic work. (Formerly ENGLISH 382)

Advisory On Recommended Preparation: Recommendation through COS Placement Procedures or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 311 (or appropriate ESL Reading/Vocabulary course) is strongly recommended.

ESL 311 ENGLISH AS A SECOND LANGUAGE, 3 UNITS BEGINNING LEVEL 2-READING AND VOCABULARY

Hours: 3 Lecture/Discussion
6 Homework

This course is suitable for the beginning student with basic knowledge of English reading and vocabulary skills. This course is designed to develop and expand reading techniques, vocabulary and study skills so that the student can comprehend and respond to written and spoken English in basic academic and vocational situations. (Formerly ENGLISH 382)

Advisory On Recommended Preparation: Recommendation through COS Placement Procedures or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 310 (or appropriate ESL Writing/Grammar course) is strongly recommended.

ESL 312a-b ENGLISH AS A SECOND LANGUAGE, 2 UNITS BEGINNING LEVEL PRONUNCIATION/SPEAKING

Hours: 2 Lecture/Discussion
4 Homework

This course is suitable for the true beginner with little or no knowledge of English pronunciation and speaking skills. The course is designed to develop basic speaking skills so that the student can comprehend and respond to basic spoken English. This course may be repeated once. (Formerly ENGLISH 381/382).

Advisory On Recommended Preparation: Recommendation through COS Placement Procedures or skilled competencies as determined by departmental assessment. Concurrent registration in ESL writing and reading classes is strongly recommended.

ENGLISH AS A SECOND LANGUAGE

ESL 320 ENGLISH AS A SECOND LANGUAGE, INTERMEDIATE LEVEL 1 WRITING AND GRAMMAR 4 UNITS
Hours: 3 Lecture/Discussion
3 Lab
6 Homework

This course is suitable for the lower intermediate student with some foundation in English grammar and writing. Students focus on writing coherent paragraphs and begin writing essays using the process approach. The course is designed to reinforce and build upon grammar and writing skills to enable the student to function both orally and in writing in intermediate English academic and vocational situations. Students are introduced to basic computer and word processing skills necessary for academic work. (Formerly English 383).

Advisory On Recommended Preparation: ESL 310 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 321 (or appropriate ESL Reading/vocabulary course) is strongly recommended.

ESL 321 ENGLISH AS A SECOND LANGUAGE, INTERMEDIATE LEVEL 1 READING/VOCABULARY 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

This course is suitable for the lower intermediate student with some foundation in English reading and vocabulary skills. This course is designed to develop reading techniques, vocabulary and study skills so that the student can comprehend and respond to written and spoken English in intermediate academic and vocational situations. (Formerly ENGLISH 383).

Advisory On Recommended Preparation: ESL 311 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 320 (or appropriate ESL Writing/Grammar course) is strongly recommended.

ESL 330 ENGLISH AS A SECOND LANGUAGE, INTERMEDIATE LEVEL 2 WRITING AND GRAMMAR 4 UNITS
Hours: 3 Lecture/Discussion
3 Lab
6 Homework

This course is suitable for the upper intermediate student with a good foundation in English grammar and writing. The process method of writing is used to develop essay writing. The course is designed to reinforce and build upon grammar and writing skills to enable the students to function both orally and in writing in intermediate to low advanced English academic and vocational situations. Students are introduced to basic computer and word processing skills necessary for academic work. (Formerly ENGLISH 384)

Advisory On Recommended Preparation: ESL 320 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 331 (or appropriate ESL Reading/Vocabulary course) is strongly recommended.

ESL 331 ENGLISH AS A SECOND LANGUAGE, INTERMEDIATE LEVEL 2 READING/VOCABULARY 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

This course is suitable for the upper intermediate student with a strong foundation in English reading and vocabulary skills. This course is designed to expand reading techniques, vocabulary and study skills so that the student can comprehend and respond to written and spoken English in intermediate to advanced academic and vocational situations. (Formerly ENGLISH 384)

Advisory On Recommended Preparation: ESL 321 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 330 (or appropriate ESL Writing/Grammar course) is strongly recommended.

ENGLISH AS A SECOND LANGUAGE

ESL 332a-b ENGLISH AS A SECOND LANGUAGE, INTERMEDIATE LEVEL PRONUNCIATION/SPEAKING 2 UNITS
Hours: 2 Lecture/Discussion
4 Homework

This course is suitable for the intermediate level student with a basic foundation in English pronunciation and speaking skills. The course is designed to improve speaking skills so that the student can comprehend and respond to spoken English in academic and vocational situations. This course may be repeated once. (Formerly ENGLISH 383/384)

Advisory On Recommended Preparation: ESL 312a-b or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or skilled competencies as determined by departmental assessment. Concurrent registration in ESL writing and reading classes is strongly recommended.

ESL 340 ENGLISH AS A SECOND LANGUAGE, ADVANCED LEVEL 1 WRITING AND GRAMMAR 2 UNITS
Hours: 3 Lecture/Discussion
3 Lab
6 Homework

This course is suitable for the advanced student with a strong foundation in English grammar and writing. Using the process approach, students write essays in response to a variety of prompts. The course is designed to review and build upon grammar and writing skills to enable the student to function in advanced English academic and vocational situations. Students are introduced to basic computer and word processing skills necessary for academic work. (Formerly ENGLISH 385)

Advisory On Recommended Preparation: ESL 330 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 341 (or appropriate ESL Reading/Vocabulary course) writing and reading classes is strongly recommended.

ESL 341 ENGLISH AS A SECOND LANGUAGE, ADVANCED LEVEL 1 WRITING AND GRAMMAR 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

This course is suitable for the advanced student with a strong foundation in English reading and vocabulary skills. The course is designed to expand reading techniques, vocabulary and study skills so that the student can comprehend and respond to written and spoken English in advanced academic and vocational situations. (Formerly ENGLISH 385)

Advisory On Recommended Preparation: ESL 331 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 340 (or appropriate ESL Writing/Gammar course) is strongly recommended.

ESL 350 ENGLISH AS A SECOND LANGUAGE, ADVANCED LEVEL 2 WRITING AND GRAMMAR 4 UNITS
Hours: 3 Lecture/Discussion
3 Lab
6 Homework

This course is suitable for the advanced student with demonstrated knowledge and experience in English grammar and writing. The course is designed to review and refine grammar for application in writing projects to enable the student to successfully transition into main-stream coursework. Students are introduced to basic computer and word processing skills necessary for academic work. (Formerly ENGLISH 386).

Advisory On Recommended Preparation: ESL 340 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 351 (or appropriate ESL Reading/vocabulary course) is strongly recommended.

ENGLISH AS A SECOND LANGUAGE

ESL 351 ENGLISH AS A SECOND LANGUAGE, ADVANCED LEVEL 2 READING/VOCABULARY 3 UNITS

**Hours: 3 Lecture/Discussion
6 Homework**

This course is suitable for the advanced student with demonstrated ability to comprehend written English at an advanced level. The course is intended to expand reading techniques, vocabulary and study skills so that the student can successfully transition into mainstream course work. (Formerly ENGLISH 386).

Advisory On Recommended Preparation: ESL 341 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or skilled competencies as determined by departmental assessment. Concurrent registration in ESL 350 (or appropriate ESL Writing/Grammar course) is strongly recommended.

ESL 352a-b ENGLISH AS A SECOND LANGUAGE, ADVANCED LEVEL PRONUNCIATION/SPEAKING 2 UNITS

**Hours: 2 Lecture/Discussion
4 Homework**

This course is suitable for the advanced level student with a strong foundation in English pronunciation and speaking skills. The course is designed to improve speaking skills so that the student can comprehend and respond to spoken English in advanced academic and vocational situations. This course may be repeated once. (Formerly ENGLISH 385/386).

Advisory On Recommended Preparation: ESL 332a-b or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures, or skilled competencies as determined by departmental assessment. Concurrent registration in ESL writing and reading classes is strongly recommended.

ETHNIC STUDIES

ETHN 3 MEXICAN-AMERICAN STUDIES 3 UNITS

**Hours: 3 Lecture/Discussion
6 Homework**

This course studies the Mexican-American community and culture in American society. Using an interdisciplinary approach (anthropology, history, sociology, literature, art and music), the course will examine Mexican-American contributions and conflicts in American society. Also studied are the pre-Columbian roots of Chicano-Mexican heritage.

Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

ETHN 101 BLACK AMERICAN STUDIES 3 UNITS

**Hours: 3 Lecture/Discussion
6 Homework**

This course uses an interdisciplinary approach to Black Studies covering periods of social, cultural and historical development. Topics include African civilization, slavery, the Diaspora, abolition, reconstruction, segregation, Harlem Renaissance, and the Civil rights Movement. Field trips are a part of this course.

Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

ETHN 102 AMERICAN INDIAN STUDIES 3 UNITS

**Hours: 3 Lecture/Discussion
6 Homework**

This course uses an interdisciplinary approach, this course will focus on the historical, social, religious, ecological, economic, and artistic characteristics of various Indian Nations, as well as, U.S. government policy toward Indians. Special attention will be given to San Joaquin Valley Indians. Field trips are part of this course.

Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

ENVIRONMENTAL CONTROL TECHNOLOGY

ECT 180 ELECTRICITY AND CONTROL FOR HVAC 4 UNITS

**Hours: 4 Lecture/Discussion
2 Lab
6 Homework**

ECT 180 is a basic course in electrical theory and applications of controls for the Heating, Ventilating, Air Conditioning/Refrigeration controls class. The theories and concepts of OHMS and Kerchoffs laws are studied extensively in this course in addition to the theories and concepts of refrigeration.

ECT 181 BASIC AIR CONDITIONING 10 UNITS

**Hours: 10 Lecture/Discussion
4 Lab
16 Homework**

Materials Fee: \$20.00

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, diagnose refrigeration 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.

ECT 182 ADVANCED AIR CONDITIONING AND REFRIGERATION--COMMERCIAL AND DOMESTIC 12 UNITS

**Hours: 10 Lecture/Discussion
10 Lab
16 Homework**

Materials Fee: \$10.00

An advanced course offered in environmental control technology that covers commercial and domestic air conditioning and refrigeration theory. Topics include the fundamentals of wiring circuits and the concept of electrical problem solving as it relates to both commercial and residential applications. Topics also include using methods to calculate heat load values necessary to sizing equipment in the industry.

Advisory On Recommended Preparation: ECT 181 or equivalent college course with "C" or better.

ECT 200 INTRODUCTION TO INDUSTRIAL AMMONIA REFRIGERATION 3 UNITS

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.

Advisory On Recommended Preparation: ECT 260 or 181 or equivalent college course with "C" or better, or employment (past or current) by an industrial ammonia facility.

ECT 201 ADVANCED AMMONIA REFRIGERATION 3 UNITS

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.

Advisory On Recommended Preparation: ECT 200 or equivalent college course with "C" or better, or employment (past or current) by an industrial ammonia facility.

ENVIRONMENTAL CONTROL TECHNOLOGY

ECT 260 BASIC REFRIGERATION 2 UNITS
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

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.

ECT 261 INTRODUCTION TO AIR 2 UNITS
CONDITIONING & REFRIGERATION -COMMERCIAL & DOMESTIC
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

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.

Advisory On Recommended Preparation: ECT 260 or equivalent college course with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.

ECT 262 HEATING SYSTEMS AND CONTROLS 2 UNITS
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

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.

ECT 263 COMMERCIAL REFRIGERATION SYSTEMS 2 UNITS
AND CONTROLS
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

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.

Advisory On Recommended Preparation: ECT 260 or equivalent college course with "C" or better, or equivalent training/experience.

FASHION

FASH COSTUMING 3 UNITS
12a-b
Hours: 2 Lecture/Discussion
 4 Lab
 2 Activity

CROSS REF: THR ART 12a-b

A study of the principles and practice of costume construction from pattern to completed garments. Construction techniques, fabrics, basic patterns, wardrobe plotting, and historical styles. Additional hours required to work on crews for college Theatre Arts and Dance productions.

FASHION

FASH MAKEUP 3 UNITS
17a-b
Hours: 2 Lecture/ Discussion
 4 Lab

Cross Ref: THR ART 17a-b

This course is designed to introduce the student to the basic techniques and materials of makeup. Additional hours required to work on crews for college productions.

FASH 76 TEXTILES 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. CAN HEC 6.

FASH CLOTHING 3 UNITS
160a-b CONSTRUCTION
Hours: 2 Lecture/Discussion
 3 Lab

A study of the principles of clothing construction from pattern to completed garment. Emphasis on fabric performance, garment fit and various construction techniques for woven and knit fabrics. Designed for both beginners and experienced sewers. Open to all interested students. CAN HEC 10 includes 160a only.

FASH TAILORING 3 UNITS
161a-b
Hours: 2 Lecture/Discussion
 3 Lab

A study of traditional and contemporary tailoring techniques, including construction of a man's or woman's coat or suit jacket. Emphasis on garment fit, quality construction and pattern selection. Open to all interested students.

FASH CREATIVE PATTERN DESIGN 3 UNITS
162
Hours: 2 Lecture/ Discussion
 3 Lab

A basic course in apparel design through the use of flat pattern techniques. Includes the design, drafting, and construction of garments. Open to all students interested in clothing design, especially fashion majors, those who are interested in sewing for themselves and others, who may teach in the clothing area or who have fitting problems. **Advisory On Recommended Preparation:** Clothing construction experience.

FASH ADVANCED PATTERN DESIGN 2 UNITS
163
Hours: 6 Lab

An advanced lab course in apparel design through the use of flat pattern techniques. Includes the design, drafting and construction of garments.

Advisory On Recommended Preparation: FASH 162 or equivalent college course with "C" or better.

FASH 167 APPLIED COLOR THEORY 2 UNITS
Hours: 2 Lecture/Discussion
 1 Lab

A study of color and its relationships to individuals and their environments including interior design, advertising, fashion merchandising, floral design, etc. Contemporary color theories, color perceptions, color matching, and the development of a color nomenclature are included. Projects assist the student in developing a sensitive and discriminating eye for making color choices. Attention is given to the selection of an individualized color palette.

FASH 168 ADVANCED COLOR THEORY 2 UNITS
Hours: 2 Lecture/Discussion
 1 Lab
 4 Homework

Advanced Color Theory focuses on helping the student expand their color knowledge and problem solving abilities while investigating projects relating to color interests and career opportunities in color related fields or businesses.

Prerequisites: FASH 167 or equivalent college course with "C" or better.

FASHION

FASH 170 MODELING 3 UNITS
Hours: 3 Lecture/Discussion
Cross Ref: THR ART 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.

FASH 174a-b FASHION ILLUSTRATION 3 UNITS
Hours: 2 Lecture/Discussion
3 Lab

Cross Ref: ART 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.

FASH 175M1 FASHION IMAGE -Design Elements 1.5 UNITS
Hours: 1.5 Lecture/Discussion
3 Homework

SHORT TERM CLASS - MODULAR TRAINING

Fashion Image M1 focuses on helping men and women apply their fashion knowledge and practice their problem solving abilities while completing assignments related to demonstrating their working understanding of art principles and elements used when selecting wardrobe pieces for multiple images of appropriate dress.

FASH 175M2 FASHION IMAGE AND WARDROBING 1.5 UNITS
Hours: 1.5 Lecture/Discussion
4 Homework

SHORT TERM CLASS - MODULAR TRAINING

Fashion Image M2 focuses on understanding the role of visual image and personal presentation for both men and women. Students apply learned principles of body proportion and color to develop basic wardrobe plans, shopping strategies, and clothing maintenance skills.

FASH 177 INTRODUCTION TO FASHION 3 UNITS
177 MERCHANDISING
Hours: 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 inter-relationship 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.

FASH 178 VISUAL MERCHANDISING 3 UNITS
AND PROMOTION
Hours: 2 Lecture/ Discussion
3 Lab

Materials Fee: \$10.00

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.

FASH 179 ORIGINS OF FASHION 3 UNITS
Hours: 3 Lecture/Discussion

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.

FASHION

FASH 199 TOPICS IN FASHION 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. Credits may be earned in 199 transfer level.

FASH 260 CAREER DRESSING 1 UNIT
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.

FASH 261a-d PRINCIPLES OF CLOTHING CONSTRUCTION 1 UNIT
Hours: 3 Lab

A skills-oriented class in clothing construction from pattern to completed garment. Emphasis is on garment fit, the use of construction techniques for woven and knit fabrics and efficient sewing techniques. Designed for both beginning and experienced sewers.

FASH 265 RETAIL CAREER PREPARATION 1 UNIT
Hours: SHORT TERM CLASS: TOTAL HOURS 52.5
17.5 Lecture
35 Homework

Cross Ref: BUSINESS 265

This course will help students prepare for employment in retail and sales. Instruction will emphasize job search techniques, resume, application and correspondence related to job search, interview and portfolio preparation and interview skills will also be enhanced towards the end of the certificate program.

Advisory on Recommended Preparation: It is advised for students to take this course the same semester they take WRK EXP 193.

FASH 266 ALTERATIONS, FITTING, SEWING 1 UNIT
SPECIALITY FABRICS
Hours: 3 Lecture/Discussion
1 Homework

Basic analysis and techniques related to fitting and altering ready-to-wear garments and commercial patterns, and the specific techniques required to handle speciality fabrics for persons pursuing careers in the fashion industry, or for those who wish to construct clothing for others or for themselves.

Advisory on Recommended Preparation: One semester of clothing construction or interview with department to determine if student must have experience sewing jackets, pants, and skirts.

FASH 299 TOPICS IN FASHION 1-4 UNIT
Hours: Variable

Material Fees: 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 non-transferable.

FASH 360a-d PRINCIPLES OF CLOTHING CONSTRUCTION 1 UNIT
Hours: 3 Lab

A skills-oriented class in clothing construction from pattern to completed garment. Emphases are garment fit, the use of construction techniques for woven and knit fabrics, efficient sewing techniques. Designed for both beginning and experienced sewers.

FASH 361 COLOR SELECTION 1 UNIT
Hours: SHORT TERM CLASS
A total of 18 Lecture/Discussion hours

The class features the development of a personal color palette through a systematic, organized process for the selection of individualized colors. The class includes a brief examination and comparison of contemporary color theories.

FIRE TECHNOLOGY

FIRE TEC 125	FUNDAMENTALS OF FIRE APPARATUS AND EQUIPMENT	3 UNITS
Hours:	3 Lecture/Discussion	
Student will identify and describe applicable standards, laws and regulations as they relate to fire service apparatus.		
FIRE TEC 154	FUNDAMENTALS OF FIRE SERVICE OPERATIONS	3 UNITS
Hours:	3 Lecture/Discussion	
Provides the student with the fundamentals of fire department organization, management, and resources, and emphasizes the use of those resources to control various emergencies.		
FIRE TEC 155	FIRE BEHAVIOR AND COMBUSTION	3 UNITS
Hours:	3 Lecture/Discussion	
Theory and fundamentals of how and why fires start, spread, and are controlled; an in-depth study of fire chemistry and physics, fire characteristics of materials, extinguishing agents, and fire control techniques.		
Prerequisite: FIRE TEC 159 or equivalent college course with a grade of "C" or better.		
FIRE TEC 156	FIRE SERVICE HYDRAULICS	3 UNITS
Hours:	3 Lecture/Discussion	
This is a fire suppression class which studies the theory of water at rest; in motion, under pressure and engineering principles of formulas and mental calculations dealing with hydraulic problems as related to the fire service industry.		
Prerequisites: FIRE TEC 154 and 159 or equivalent college courses with "C" or better.		
FIRE TEC 157	FIRE PREVENTION TECHNOLOGY	3 UNITS
Hours:	3 Lecture/Discussion	
Provides information regarding the philosophy of fire prevention, organization and operation of a fire prevention bureau, application of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with fire safety education and detection and suppression systems.		
Prerequisite: FIRE TEC 159 or equivalent college course with a "C" or better.		
FIRE TEC 159	FIRE PROTECTION ORGANIZATION	3 UNITS
Hours:	3 Lecture/Discussion	
Provides an introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics. This is one of the first courses a student should take in the sequence of Fire Technology classes.		
FIRE TEC 161	S.F.M. FIRE PREVENTION 1A	2 UNITS
Hours:	SHORT TERM CLASS	
A total of 40 Lecture/Discussion hours		
One of the five fundamental courses for students pursuing a degree in fire technology. Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with fire safety education and detection and suppression systems.		
FIRE TEC 162	S.F.M. FIRE PREVENTION 1B	2 UNITS
Hours:	SHORT TERM:	
A total of 40 Lecture/Discussion hours		
One of the five fundamental CORE courses for students pursuing a degree in fire technology. Provides information regarding fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationship of fire prevention with fire safety education and detection and suppression systems.		
Prerequisite: FIRE TEC 161 or equivalent college course with "C" or better.		

FIRE TECHNOLOGY

FIRE TEC 163	FIRE PROTECTION EQUIPMENT AND SYSTEMS	3 UNITS
Hours:	3 Lecture/Discussion	
One of the five fundamental CORE courses for students pursuing a degree in Fire Technology. Provides information relating to the features of design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers.		
Prerequisite: FIRE TEC 159 or equivalent college course with a "C" or better.		
FIRE TEC 164	FIRE PREVENTION 1C	2 UNITS
Hours:	SHORT TERM	
A total of 40 Lecture/Discussion hours		
This is the third class in a series of classes designed for the career oriented student or a currently employed fire fighter to develop knowledge and skills in the area of fire prevention. This course has more theory and more difficult research exercises than does Fire Prevention 1A or 1B.		
Prerequisite: FIRE TEC 161 and FIRE TEC 162 or equivalent college course(s) with a "C" or better.		
FIRE TEC 170	BASIC FIREFIGHTER I ACADEMY	9 UNITS
Hours:	Total Hours: 140Lecture/Discussion 144 Lab 284 Total Hours	
Manipulative and technical training in basic concepts in fire service organization and theories of fire control, including laws and regulations affecting the fire service personnel, and functions; fire organizations; principles of fire behavior; and the basic consideration in fire strategy and tactics.		
Limitation On Enrollment: Currently affiliated with a fire service agency.		
FIRE TEC 171	S.F.M. FIRE INSTRUCTOR 1A	2 UNITS
Hours:	SHORT TERM CLASS	
A total of 40 Lecture/Discussion hours		
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.		
FIRE TEC 172	S.F.M. FIRE INSTRUCTOR 1B	2 UNITS
Hours:	SHORT TERM CLASS	
A total of 40 Lecture/Discussion hours		
This course is recommended for Fire Service personnel having training responsibilities within their fire department. Techniques of Fire Service Instruction 1B 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.		
Prerequisite: FIRE TEC 171 or equivalent college course with "C" or better.		
FIRE TEC 173	S.F.M. FIRE COMMAND 1A	2 UNITS
Hours:	SHORT TERM CLASS (A total of 40 hours) 40 Lecture/Discussion hours	
This course provides the Company Officer with information and experience in command and control techniques at the scene of an emergency. 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. This course also 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.		
Limitation On Enrollment: Must be presently appointed to a fire service or related agency and is eligible for SFM fire officer or fire prevention officer upon completion of all required curriculum per the California Fire Service Training and Education System Policy Text.		

FIRE TECHNOLOGY

FIRE TEC 174	S.F.M. FIRE COMMAND 1B	2 UNITS
Hours:	SHORT TERM CLASS A total of 40 Lecture/Discussion hours	
This course provides the Fire Company Officer with information and experience in command and control techniques at the scene of a Hazardous Materials emergency. The course emphasizes the ability to issue commands and how to respond to a command given by a higher authority during an emergency. It is part of the performance requirements for a Fire Service Officer.		
Prerequisites: FIRE TEC 173 or equivalent college course with "C" or better.		
FIRE TEC 182	BUILDING CONSTRUCTION FOR FIRE PROTECTION	3 UNITS
Hours:	3 Lecture/Discussion hours 6 Homework hours	
The study of the components of building construction relating to fire safety. Elements of construction and design of building. Development and evolution of building in relationship to past fires.		
FIRE TEC 252	S.F.M. - FIRE INVESTIGATION 1A	2 UNITS
Hours:	SHORT TERM CLASS (A total of 40 hours) 40 Lecture/Discussion	
This course 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 and 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.		
Limitation On Enrollment: Must be presently appointed to a fire service or related agency and is eligible for SFM fire officer or fire prevention officer upon completion of all required curriculum.		
FIRE TEC 253	S.F.M. - FIRE INVESTIGATION 1B	2 UNITS
Hours:	SHORT TERM CLASS A total of 40 Lecture/Discussion hours	
This is the second class in a series of classes designed for the career oriented student or a currently employed fire fighter to develop knowledge and skills in the area of fire investigation. Students will study legal codes and regulations governing the laws of evidence, interviews, court proceedings, and fire investigation techniques. Laboratory demonstrations will assist to develop skill and understanding of the legal and investigative procedures.		
Prerequisite: FIRE TEC 252 or equivalent college course with "C" or better.		
FIRE TEC 267	CSFM FIRE CONTROL 6	.5 UNITS
Hours:	SHORT TERM CLASS (A total of 16 hours) 16 Lecture/Discussion hours	
One of the fundamental elective courses for personnel pursuing the California State Fire Marshal's (CSFM) Fire Service Training and Education Program (FSTEP). Provides technical knowledge in the specialized subject of wildland fire control. It is part of the package funded by the Chancellor's Office. This class provides the student with the fundamentals of planning, organizing and developing strategies and tactics for mitigating wildland fires.		
Limitation on Enrollment: Currently employed or volunteer fire fighter of an organized fire department of fire district per the California Fire Service Training and Education System Policy Text.		
FIRE TEC 277	S.F.M. Fire Management 1	2 UNITS
Hours:	SHORT TERM CLASS: TOTAL HOURS 102 34 Lecture/Discussion 14 Lab 54 Homework	
Reviews management styles of leadership and through the use of inaction exercises, simulations, and case studies, allows each student to experience how these basic principles can be effectively applied for on-the-job results. This course is one of the State Fire Marshal training classes needed for Fire Officer certification.		
Advisory on Recommended Preparation: Completion of nine (9) units in Fire Technology or presently employed as a fire fighter or serving as a volunteer fire fighter.		

FRENCH

FRENCH 1	ELEMENTARY FRENCH 1	4 UNITS
Hours:	4 Lecture/Discussion 1 Lab	
This course is committed to the use of French and French cultural aspects as the medium of instruction and to the four skills of understanding, speaking, reading and writing. It is the first semester course in a series of four. It introduces the student to the French sentence patterns and words that are found in basic everyday topics, activities, and culture. CAN FREN 2.		
FRENCH 2	ELEMENTARY FRENCH 2	4 UNITS
Hours:	4 Lecture/Discussion 1 Lab	
This course is committed to the use of French and French cultural aspects as the medium of instruction and to the four skills of understanding, speaking, reading and writing. It is the second semester course in a series of four. It also strengthens and broadens the student knowledge of topics, activities and culture of the French speaking world. CAN FREN 4.		
Prerequisite: FRENCH 1 or equivalent college course with "C" or better, or one year of high school French with "C" or better, or permission of department.		
FRENCH 3	INTERMEDIATE FRENCH	4 UNITS
Hours:	4 Lecture/Discussion 1 Lab	
This course is the third semester course in a series of four. It is conducted in French. It is committed to the development of communicative skills in a cultural context. Reading, listening and writing skills are strengthened by the exposure to and the analysis of contemporary texts and French media sources. CAN FREN 8.		
Prerequisite: FRENCH 2 or equivalent college course with "C" or better, or two years of high school French with "C" or better, or permission of department.		
FRENCH 4	ADVANCED FRENCH	4 UNITS
Hours:	4 Lecture/Discussion 1 Lab	
French 4 is the fourth course in a series of four. Classes are conducted in French. The development and the acceleration of conversational skills are stressed within cultural contexts. The morphology and the syntax of the French language are studied in detail. Writing practice is intensive and related to contemporary culturo-socio-economical aspects of the French society. An overview of French literary genres is presented. CAN FREN 10.		
Prerequisite: FRENCH 3 or equivalent college course with "C" or better, or three years of high school French with "C" or better, or permission of department.		

GEOGRAPHY

GEOG 1	PHYSICAL GEOGRAPHY	3 UNITS
Hours:	3 Lecture/Discussion	
An investigation and interpretation of weather, climate, vegetation, soils, 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.		
Advisory On Recommended Preparation: MATH 200 or MATH 215 or Math 205, or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures; and ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.		
GEOG 1L	PHYSICAL GEOGRAPHY LABORATORY	1 UNIT
Hours:	3 lab hours	
Observations, computer projects, experiments, and a field trip are designed to familiarize students with techniques used in physical geography.		
Corequisite: Concurrent enrollment in GEOG 1.		
Advisory On Recommended Preparation: MATH 200 or Math 205, or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures; and ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.		

Course Descriptions

GEOGRAPHY

GEOG 2 WORLD REGIONAL GEOGRAPHY 3 UNITS
Hours: 3 Lecture/Discussion
 Aspects of physical and cultural geography such as landforms, climate, vegetation, soils, natural resources, demography, political and economic organization and urbanization are applied to various world regions. An emphasis is placed on understanding man-land relationships, promoting cultural awareness, and examining current world problems from a geographical perspective.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

GEOG 3 CULTURAL GEOGRAPHY 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework hours
 A general background to cultural geography including cultural origins, populations, migration, multicultural issues, ethnic diversity, religion, language, economic systems, resources, environmental issues, and map interpretations. Emphasis is placed on key relationships of humankind to the social and physical environment. CAN GEOG 4
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

GEOLOGY

GEO 1 PHYSICAL GEOLOGY 4 UNITS
Hours: 3 Lecture/Discussion
3 Lab hours
 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. CAN GEOL 2.

Advisory On Recommended Preparation: MATH 200 or 215 or 205, or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures; and ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

GEO 4 EARTH HISTORY 4 UNITS
Hours: 3 Lecture/Discussion
3 Lab
6 Homework

This course examines the geologic evidence for the major events in earth's turbulent history including: the formation of the crust, atmosphere, and oceans; the tectonic history of the continents; mass extinctions and the record of life on Earth. Lab exercises include: fossil and rock identification, basic principles of geologic time and stratigraphy, and geologic map interpretation.

Advisory On Recommended Preparation: Math 200 or 215 or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures; and ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

GEO 12 ENVIRONMENTAL GEOLOGY 3 UNITS
Hours: 3 Lecture/Discussion

A study 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.

Advisory On Recommended Preparation: Math 200 or 215 or 205, or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures; and ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

GEOLOGY

GEO 351 FIELD GEOLOGY OF A PORTION OF THE MOJAVE DESERT 1 UNIT
Hours: 6 Lecture/Discussion
18 Lab
6 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.

Corequisite: GEOL 1 .

GEO 352 FIELD GEOLOGY BETWEEN VISALIA AND THE CENTRAL CALIFORNIA COAST 1 UNIT
Hours: 6 Lecture/Discussion
18 Lab
6 Activity

A field trip course which introduces the students to a portion of California between Visalia and the Central California Coast and along the coast from Santa Maria to Cambria. The course emphasizes the physical geology of the area and the interactions of man and his geological environment.

Corequisite: GEOL 1 .

HEALTH AND WELLNESS

H&W 1 PERSONAL AND COMMUNITY HEALTH 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

Approved for Distance Learning

A general course including the facts necessary for maintenance of physical and mental health. The subject matter covers holistic health, mental health, stress management, physical health and nutrition, infectious and noninfectious diseases, sexually transmitted diseases, lifestyles, and drugs in our society.

H&W 3 STANDARD FIRST AID 3 UNITS
Hours: 3 Lecture/Discussion

Hygiene 3 covers the American Red Cross Standard First Aid 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.

H&W 7 SPORTS HEALTH 3 UNITS
Hours: 3 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.

H&W 60 CONCEPTS IN HEALTH AND FITNESS 3 UNITS
Hours: 3 Lecture/Discussion

Cross Ref: SMED 60

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.

H&W 104 DRUGS AND SOCIETY 3 UNITS
Hours: 3 Lecture/Discussion

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.

HEALTH AND WELLNESS

H&W 119 NUTRITION FOR FITNESS, EXERCISE, AND SPORTS 3 UNITS
Hours: 3 Lecture/Discussion
Cross Ref: NUTR/FOOD 119
 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.

HISTORY

HIST 4 THE HISTORY OF WESTERN CIVILIZATION TO 1648 3 UNITS
Hours: 3 Lecture/Discussion

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. CAN HIST 2.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

HIST 5 THE HISTORY OF WESTERN CIVILIZATION SINCE 1648 3 UNITS
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 twentieth 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.

CAN HIST 4.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

HIST 5H THE HISTORY OF WESTERN CIVILIZATION SINCE 1648 - HONORS 4 UNITS
Hours: 4 Lecture/Discussion

A study of the history of the development of Western Civilization from 1648 to the present time. This course will examine the interaction of political, economic, social, religious and artistic forces in shaping Western society. In addition, this course will pay particular attention to the conflict between freedom and tyranny in the growth of political institutions in Europe. A weekly one hour colloquium culminates in an appropriate semester project.
Advisory On Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.

Limitation On Enrollment: Acceptance into the Honors Program or permission of department.

HIST 17 THE PEOPLE OF THE UNITED STATES 3 UNITS
Hours: 3 Lecture/Discussion

A study of the people of the United States from colonial beginnings to 1865 emphasizing the interaction of political, economic, and social factors in the evolution of American culture. CAN HIST 8.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

HISTORY

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. CAN HIST 10.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

HIST 18H AMERICAN HISTORY THROUGH THE EYE OF FICTION 4 UNITS
Hours: 3 Lecture/Discussion
 1 Colloquium

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.

Advisory on Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.

Limitation On Enrollment: Acceptance into the Honors Program.

HIST 19 THE PEOPLE OF LATIN AMERICA 3 UNITS
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.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

HIST 20 THE PEOPLE OF LATIN AMERICA 3 UNITS
Hours: 3 Lecture/Discussion

A comparative study of the culture and heritage of the people of Latin America from the 1850's to the present. Emphasis will be upon the social, political and economic factors shaping their destiny and role in today's world community.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

HIST 21 THE PEOPLE OF MEXICO 3 UNITS
Hours: 3 Lecture/Discussion

A study of the culture and heritage of the people of Mexico from the Native American period to the present time with an emphasis on the social, political, and economic factors shaping their destiny in the world today. Through assigned reading, discussion, and writing, the students gain critical insights into the history and development of Mexico, as well as its literary, artistic, and sociopolitical contributions to world culture and civilizations.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

HIST 23 MEXICAN AMERICAN HISTORY 3 UNITS
Hours: 3 Lecture/Discussion

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.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

Course Descriptions

HISTORY

HIST 31 THE PEOPLE OF CALIFORNIA 3 UNITS
Hours: 3 Lecture/Discussion

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.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

HUMAN DEVELOPMENT

HUM CAREER PLANNING 3 UNITS
DEV 100
Hours: 3 Lecture
6 Homework

An introduction to career/life planning including an exploration of interests, skills, values, personality traits, past experiences and life stages. Students will develop a career/life plan using gathered self-information, decision-making strategies and an awareness of psychological, sociological and physiological factors related to career/life satisfaction.

HUM STUDENT SUCCESS 2 UNITS
DEV 120a-b
Hours: 2 Lecture
4 Homework

This course will provide the student with an opportunity to learn and adopt techniques, tools, and methods that will enhance his/her success in college. In addition, information on campus resources, regulations, and requirements for graduation/transfer will be discussed. This course may be repeated once.

Limitation On Enrollment: Some sections may be reserved for special populations.

HUM PEER COUNSELING 3 UNITS
DEV 122a-d
Hours: 2 Lecture/Discussion
2 Lab

Human Development 22 focuses on interpersonal communication and interaction skills within the setting of student-to-student advising. Emphasis is placed on communication in dyadic, group, and intercultural contexts. Counseling theories and research provide a foundation upon which to understand human behavior and appropriate intervention as Peer Advisors. Students will acquire skills important to the applications of general psychology to solve non-clinical academic, personal, and social problems while serving as assistants to faculty and paraprofessionals.

Advisory On Recommended Preparation: PSYCH 1 or equivalent college course with "C" or better; and ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

HUM COLLEGE SUCCESS SKILLS 1 UNIT
DEV 230
Hours: SHORT TERM CLASS (A total of 18 hours)
1 Lecture/Discussion
2 Homework

This course provides students with an opportunity to learn techniques and adopt attitudes and skills that promote academic success. Course content is taught with the objective of identifying personal obstacles to academic success. The focus will be on time management, procrastination and goal setting, stress management, focusing and concentrating, adjusting to college and successful relationships. Campus resources providing further support will also be introduced.

HUM CAREER DEVELOPMENT 1 UNIT
DEV 251a-c
Hours: SHORT TERM CLASS (A total of 18 hours)
1 Lecture/Discussion
2 Homework

This course focuses on career, personal and educational awareness as they relate to the process of career choice and academic goal setting. Self-assessment instruments which focus on interests skills, values, and personality will help identify career options. Decision-making strategies, labor market trends, interviewing skills, resume writing, application completion and job search techniques will be reviewed.

HUMAN DEVELOPMENT

HUM SUMMER COLLEGE READINESS PROGRAM 3 UNITS
DEV 258
Hours: 54 Total Course Hours
36 Homework hours

The summer College Readiness Program provides students with the skills and necessary knowledge to become self-directed individuals. Desired outcomes of the program are that students become independent thinkers capable of making intelligent choices, and develop the self-confidence to participate in classroom activities.

Limitation on enrollment: Acceptance into the Extended Opportunity Program and Services Summer Readiness Program.

HUM 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.

Limitation On Enrollment: Must be an EOP&S student with permission of department.

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.

HUMANITIES

HUMANITIES INTRODUCTION TO HUMANITIES 3 UNITS
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.

HUMAN SERVICES

HUM SERV INTRODUCTION 3 UNITS
120 TO SOCIAL WELFARE
Hours: 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.

HUMAN SERVICES

HUM SERV INTERVIEWING 4 UNITS
121
Hours: 3 Lecture/Discussion
2 Lab

Methods and techniques of interviewing. Emphasis is on obtaining social information, presenting social agencies, developing sensitivity and awareness of the needs, feelings and concerns of those being interviewed; developing skills and the use of interpreters. Special programs, problems in interviewing the children, the troubled and the aged.

HUM SERV INTRODUCTION 3 UNITS
122 OF HUMAN SERVICES
Hours: 3 Lecture/Discussion

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, interpersonal and community dysfunction.

HUM SERV 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.

HUM SERV PHYSICAL AND PSYCHOLOGICAL 2 UNITS
229 ASPECTS OF DRUG USE
Hours: 2 Lecture/Discussion

This course explores physiological and psychological aspects of drug abuse and addiction; physical and psychological dependencies, psychological effects of commonly used drugs; and various methods of treatment and prevention.

HYGIENE

See Health and Wellness.

INDEPENDENT STUDY

IND ST INDEPENDENT STUDY UNITS: Variable
151a-d TRANSFER STATUS-CSU TRANSFERABILITY
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.

Limitation On Enrollment: Completion of all beginning level courses offered at COS or equivalent college course in the selected subject area. In addition, student must file an Independent Study form through the Admissions Office to obtain approval to enroll.

IND ST INDEPENDENT STUDY UNITS: Variable
251a-d 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.

Limitation On Enrollment: Completion of all beginning level courses offered at COS or equivalent college course in the selected subject area. In addition, students must file an Independent Study form through the Admissions and Records Office.

INDUSTRY AND TECHNOLOGY

I & T INDUSTRIAL MAINTENANCE 13 UNITS
100 TECHNOLOGY, OPTION A (First Semester)
Hours: 8 Lecture/Discussion
17 Lab
14 Homework

Materials Fee: \$7.00

This is the first semester of a two semester program in Industrial Maintenance Technology. This class will provide the students with the theories, concepts and skills utilized in the area of: basic electricity, machine tool operation, acetylene and MIG welding, hydraulics/pneumatics, and mechanics.

I & T INDUSTRIAL MAINTENANCE 13 UNITS
101 TECHNOLOGY, OPTION A (Second Semester)
Hours: 8 Lecture/Discussion
17 Lab
14 Homework

Materials Fee: \$7.00

This course will provide the students with theories, concepts, and skills utilized in the areas of: industrial motor controls and instrumentation, stick and TIG welding, refrigeration and programmable logic controllers. It is the second course of a two semester program and is required to earn a certificate in Industrial Maintenance Technology.

Prerequisite: I&T 100 or equivalent college course with "C" or better or equivalent skills and knowledge as determined by departmental assessment.

I & T INDUSTRIAL MAINTENANCE 4 UNITS
105a-d TECHNOLOGY, OPTION B (Night Class)
Hours: 3 Lecture/Discussion
3 Lab

Materials Fee: \$7.00

This employment oriented class will provide the students with knowledge and skills in the areas of: basic electricity, industrial electrical controls, programmable logic controllers, instrumentation, pneumatics and hydraulics, machine tool operation, refrigeration principles, and welding practices. This course parallels the day time Industrial Maintenance Technology course, but is offered in a four-semester night class format. Industrial Maintenance Technology, Option B, requires four semesters of course work and work experience to complete the certification requirements (the course may be taken without work experience, if the student does not desire a certificate), and the four semester sequence may be started any semester.

I & T 130 HAZARDOUS MATERIALS AWARENESS 1.5 UNITS
AND SAFETY
Hours: SHORT TERM CLASS (A total of 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 142 AIR CONDITIONING 3 UNITS
SHEET METAL
Hours: 3 Lecture/Discussion
3 Lab
3 Homework

General sheet metal work including design, calculating, bending, shaping soldering, riveting, and spot welding. Principles of fabrication of sheet metal fittings with basic hand tools for the sheet metal air conditioning trade.

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 (cooling-heating) duct systems and kitchen equipment. Development of triangulation and true length line layout and fabrication.

Advisory On Recommended Preparation: I&T 142 or equivalent college course with "C" or better.

INDUSTRY AND TECHNOLOGY

I & T 160 TECHNICAL COMPUTER APPLICATIONS 2 UNITS
Hours: 2 Lecture/Discussion
 4 Homework

Materials Fee: \$3.00

An introduction to the application of computer techniques to the problems encountered in industry and technology. Students will learn the basics of computer operating systems, word processing, spreadsheets and databases, and their applications to construction technology, architecture, automotive, electronics, environmental control systems, and industrial maintenance.

I & T 161a-d DESKTOP VIDEO DIGITAL PRODUCTION 4 UNITS
Hours: 3 Lecture/Discussion
 3 Lab

In this course, students shall learn the latest technologies of digital desktop video production. This class shall be a benefit to anybody in developing any type of video presentation. Students shall be able to create video productions combining 4 track audio, single track special effects and desktop graphic presentation. Students shall leave the class with the skills to enter the workplace as a desktop video producer. During the process of creating digital videos, students will have the opportunity to explore and experiment with different images to make their own visual statement. Students are expected to complete a series of required tutorials which shall allow them to understand the complexities of digital video production.

I & T 170 COMPUTER SKILLS FOR WOMEN IN BUILDING DESIGN AND CONSTRUCTION 1 UNIT
Hours: SHORT TERM CLASS (A total of 4 weeks)
 6 Lecture/Discussion

A "hands on" introduction to the use of the computer hardware and software most frequently utilized in construction and environmental design. Students will learn the basics of computer assisted drafting, other graphics applications such as cabinet design and layout, computer animation as it relates to building design and construction, and three dimensional modeling. Computer applications for structural analysis, building energy use analysis, estimating, scheduling and cost accounting will be introduced and explored.

I & T 185 ETHICS IN BUSINESS AND INDUSTRY 3 UNITS
Hours: 3 Lecture/Discussion
Cross Ref: BUS 185

This course is designed to better prepare students to deal with the many moral dilemmas they will inevitably face in their personal and professional lives. The focus of the class will be primarily on the application of ethics to contemporary issues occurring in today's business and industry. Students will research, discuss, analyze, and reflect on issues such as accountability, loyalty, confidentiality, honesty, justice, education, discrimination, etc.

I & T 190a-b SUPERVISED PRACTICE 1-3 UNITS
 (See SUPERVISED PRACTICE)

I & T 201 TECHNICAL MATHEMATICS 4 UNITS
Hours: 4 Lecture/Discussion
 8 Homework

This course is designed to meet the growing needs of students in the Industry and Technology programs. The mathematical topics chosen are those most useful in solving technical problems. The functional aspect of mathematics is of prime importance in this course, with less emphasis given to formal mathematics and the origins and explanations of mathematical phenomena. This course is specifically designed to demonstrate how to use various mathematical tools and techniques in the following fields of Industry and Technology: Automotive, Building Trades, Drafting, Electronics, Environmental Control, Maintenance Technician, and Welding. Practical problems immediately followed by solutions, are presented throughout the course. The math competency exam will be given as a final in the class.

I & T 220 WATER TREATMENT FUNDAMENTALS 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework

Basic methods for providing safe public drinking water are presented. Main underlying concepts of mathematics and science are introduced. Course fulfills specialized training requirement and prepares students for grades 1 and 2 water treatment operator certification exam administered by California Department of Health Services.

INDUSTRY AND TECHNOLOGY

I & T 221 WASTEWATER TREATMENT FUNDAMENTALS 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework

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 Resource Control Board (SWRCB) grades 1 and 2 wastewater treatment plant operator (WWTPO) exams. Course prepares students for SWRCB WWTPO grades 1 and 2 exams.

I & T 233 JOB SEARCH SKILLS 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.

Advisory On Recommended Preparation: At least two semesters of an Industry and Technology program or equivalent experience.

I & T 271 ELECTRICAL WIRING, COMMERCIAL 2 UNITS
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

This course is an introductory lecture and laboratory course in commercial wiring methods that covers the various phases of commercial wiring. The student will study blueprints, building codes, wiring methods, nomenclature, building layout, fasteners, and various other units used in commercial construction. Intended for those persons desiring to enter the electrical construction trades, maintenance technology, or other building trades.

I & T 272 ELECTRICAL WIRING, INDUSTRIAL 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework

The third in a series of three electrical wiring courses. This course is recommended for all students entering the field of electrical contracting or maintenance technology. It builds on the knowledge and experience gained through working with the I & T residential and commercial class. This course is an integral part of an extensive electrical trades program intended for those persons desiring to enter the construction or maintenance trades.

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.

Advisory On Recommended Preparation: Basic electrical and mechanical knowledge; and computer literacy.

I & T 274 ELECTRIC MOTOR CONTROLS - PROGRAMMABLE CONTROLLERS 2 UNITS
Hours: 2 Lecture/Discussion
 1 Lab
 3 Homework

This course fulfills the necessary education and background in the motor control field of programmable controllers for 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.

INDUSTRY AND TECHNOLOGY

I & T 278 PROFESSIONALISM IN THE WORKPLACE 1 UNIT
Hours: SHORT TERM CLASS: TOTAL HOURS 54
 18Lecture/Discussion
 6 Labs
 30 Homeowrk

This course is to be taken with the courses in the Industrial Maintenance Program to satisfy the requirements for a certificate. The course presents the initial preparation, installation, and operation of the type of preventative maintenance program encountered in an industrial environment to the planned, and unplanned repair of machinery.
Corequisite: I&T 101 or I&T 105a-d unless previously completed with a "C" or better.

I & T 275 SOLID STATE FUNDAMENTALS FOR ELECTRICIANS 2 UNITS
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.

Advisory On Recommended Preparation: ELECT 101 and 102 or equivalent college courses with "C" or better, or recommendation of department.

I & T 301 SURVEY OF INDUSTRY AND TECHNOLOGY FOR WOMEN 3 UNITS
Hours: SHORT TERM CLASS (A Total of 6 weeks or 72 hours)
 9 Lecture/Discussion
 3 Lab

This course is designed to give women the opportunity to discover non-traditional educational and career opportunities available to them in today's industry. Offered as a short term class, one week of study will be allocated to the six following areas of industry and technology: automotive, construction, drafting/design, electricity/electronics, industrial maintenance and welding.

I & T 303 HOME MAINTENANCE 1 UNIT
Hours: SHORT TERM CLASS (A total of 9 weeks)
 2 Lecture/Discussion
 1 Lab

This 9-week course is intended to teach basic maintenance and simple repair jobs needed around a house. Safety in work habits for the home, use of tools, and storage of materials will be emphasized. Items to be covered are a tool kit for the home, how to measure, how to saw, types of fasteners, kinds of glues and adhesives, paints and other finishing materials, simple electrical problems, simple plumbing problems, maintenance and repair of door locks, patching plaster and sheetrock walls, detecting termites, dryrot and etc. Students will be able to bring in problems from their own home.

INSURANCE

INS 121 PRINCIPLES OF INSURANCE 3 UNITS
Hours: 3 Lecture/Discussion

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.

Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

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.

Prerequisites: INS 121 or equivalent college course with "C" or better.
Advisory On Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

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.

IA 2a-d INTERCOLLEGIATE BASKETBALL - MEN 1 UNIT
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 offense, 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.

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. Off court time will be required for travel and overnight trips.

IA 6a-d INTERCOLLEGIATE ATHLETICS - FOOTBALL 2 UNITS
Hours: 2 Lecture/Discussion
 8 Activity

This course is designed for the student/athlete to compete in intercollegiate varsity football at the community college level. The student/athlete should not schedule any other classes from 2 p.m. through 6:30 p.m. Monday-Friday.

IA 7a-d INTERCOLLEGIATE ATHLETICS - GOLF 2 UNITS
Hours: 2 Lecture/Discussion
 8 Activity

Designed for the student/athlete who wishes to play competitive golf on an intercollegiate golf team competing against teammates and other community colleges.

IA 8a-d INTERCOLLEGIATE ATHLETICS - WOMEN'S SOFTBALL 2 UNITS
Hours: 2 Lecture/Discussion
 8 Activity

This course is designed for the female student interested in competing in intercollegiate softball. The course involves daily practices as well as competition at the collegiate level at league games and various tournament play. Intercollegiate softball not only allows the student/athlete to better herself as an individual athlete, but contributes to team effort as well.

IA 10a-d INTERCOLLEGIATE ATHLETICS - GOLF WOMEN'S 2 UNITS
Hours: 2 Lecture/Discussion
 8 Activity

Women's Intercollegiate golf is designed for the student/athlete who wishes to play competitive golf on an Intercollegiate golf team competing against teammates and other community colleges. This course may be repeated three times.

IA 11a-d INTERCOLLEGIATE ATHLETICS - TENNIS MEN'S 2 UNITS
Hours: 2 Lecture/Discussion
 8 Activity

Designed for the student who wishes to play competitive tennis on an intercollegiate tennis team competing against teammates and other community colleges.

IA 12a-d INTERCOLLEGIATE ATHLETICS - TENNIS WOMEN'S 2 UNITS
Hours: 2 Lecture/Discussion
 8 Activity

This course is designed for the female student who wishes to play competitive tennis on an intercollegiate tennis team competing against teammates and other community college students.

Course Descriptions

INTERCOLLEGIATE ATHLETICS

IA 16a-d INTERCOLLEGIATE ATHLETICS 2 UNITS
VOLLEYBALL - WOMEN'S
Hours: 2 Lecture/Discussion
8 Activity

Designed for the female student who wants to continue her volleyball competition at an intercollegiate level. The course involves daily practice as well as participation in intercollegiate volleyball matches and tournaments.

IA 23a-d INTERCOLLEGIATE ATHLETICS 2 UNITS
TRACK AND FIELD
Hours: 1 Lecture/Discussion
9 Activity

This class is designed for the athlete who is interested in competing in intercollegiate track and field. The course involves daily practices as well as participation in track and field meets. Each meet consists of 12 running events and eight field events; therefore, all workouts are geared towards these individual events as well as general physical fitness. Intercollegiate track and field not only allows the student to better herself/himself as an individual athlete, but contribute to a team effort as well.

IA 24a-d CROSS COUNTRY 2 UNITS
Hours: 1 Lecture/Discussion
9 Activity

This class is designed for the athlete who is interested in competing in Intercollegiate Cross Country. The course involves daily practices as well as participation in cross country meets. Each meet consists of a 4-mile run, therefore, all workouts are geared towards running this distance. Intercollegiate Cross Country not only allows the student/athlete to better herself/himself as an individual athlete, but contributes to a team effort, as well.

IA 29a-d INTERCOLLEGIATE SWIMMING 2 UNITS
Hours: 1 Lecture/Discussion
9 Activity

This class is designed for the 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 community college level.

IA 30a-d INTERCOLLEGIATE WOMEN'S SOCCER 2 UNITS
Hours: 2 Lecture/Discussion
8 Activity

Intercollegiate Women's Soccer is designed for the student/athlete (woman) interested in competing in intercollegiate soccer. The course involves daily practices as well as competition at the collegiate level through league games and tournament play. This course may be repeated three times.

INTERDISCIPLINARY STUDIES

IS 101a-d CROSS CULTURAL EDUCATION 2 UNITS
Hours: 2 Lecture/Discussion
Field Work Required

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.

IS 102a-d STUDENTS IN GOVERNMENT AND LEADERSHIP 2 UNITS
Hours: 2 Lecture/Discussion

A course for members of the Executive Board of ASB for the study of the student body, constitution, parliamentary procedure, organizations, publicity, and finance, and the development of leadership qualities through participation in campus governance and administration of the student activities program.

Limitation On Enrollment: Election by the Associated Student Body or appointment by the membership committee of the Executive Board of the Associated Student Body.

INTERDISCIPLINARY STUDIES

IS 110a-d SUPPLEMENTAL INSTRUCTION LEADERSHIP 2 UNITS
Hours: 1 Lecture/Discussion
3 Lab

This course exposes students to and gives them practice in effective individual and group tutorial methods which may be applied to a variety of subject areas in an educational setting on or of campus. Facilitated and supervised by an experienced faculty member, this is a repeatable course for students with high interest in the learning process and is especially good for those whose professional goals might include teaching.

IS 150 INTRODUCTION TO TEACHING 2 UNITS
Hours: 1 Lecture/Discussion
2 Lab
3 Homework

This course is an exploratory field experience course providing a general orientation to duties and responsibilities to public school teachers, the operation of schools, and requirements for teaching and admission to a credential program. Thirty-two hours of school visitation required.

Advisory on Recommended Preparation: ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

IS 220 ORIENTATION FOR COLLEGE SUCCESS .5 UNIT
Hours: SHORT TERM CLASS (A total of 24 hours)
6 Lecture/Discussion
3 Lab
3 Activity
12 Homework

This is a course for all new students designed to orient students to the college environment and educational opportunities. The class includes placement testing and interpretation of results; introduction to academic procedures, policies, goal setting, educational planning, college services, college facilities and exploration of various opportunities for higher education. Students will develop an educational plan to achieve the goals identified in the class.

INTERIOR DESIGN

INT INTERIOR DESIGN FUNDAMENTALS 3 UNITS
DES 121
Hours: 3 Lecture/Discussion

Examination and application of color and design principles, interior materials, and furnishings in creating functional and aesthetically pleasing interior environments. Environmental regulations and barrier-free designs are also addressed. Emphasis is placed on the psychological, social and physical needs of people in relation to their environments. Designed to meet F.I.D.E.R. standards.

INT SPACE PLANNING FUNDAMENTALS 3 UNITS
DES 122
Hours: 1 Lecture/Discussion
5 Lab
3 Assigned Homework

Examination and application of space planning, including electrical systems, lighting, architectural systems and blueprint reading in creating functional and aesthetically pleasing interior environments. Environmental regulations and barrier-free designs are also addressed. Emphasis is placed on the psychological, social and physical needs of people in relation to their environments. Designed to meet F.I.D.E.R. standards.

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, government and religion to furniture styles.

INT TOPICS IN INTERIOR DESIGN 1-4 UNIT
DES 199
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.

INTERIOR DESIGN

INT TOPICS IN INTERIOR DESIGN 1-4 UNIT
DES 299
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 non-transferable.

JOURNALISM

JOURNAL 1 BEGINNING NEWSWRITING 3 UNITS
Hours: 3 Lecture/Discussion
2 Lab

A comprehensive approach to learning the fundamentals of news writing. The course covers all phases of production of news and feature stories. Source development, interviewing techniques, and writing, organizing, and editing a story for publication, as well as the development of news judgment, will be covered. CAN JOUR 2.
Prerequisites: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures. Placement Testing requirement may be waived (see Matriculation Policies: Exemption Criteria for Assessment).

JOURNAL 7 MASS COMMUNICATIONS 3 UNITS
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 4 UNITS
103 a-d
Hours: 2 Lecture
7 Lab
3 Homework

This course provides practical experience in all aspects of producing a newspaper through work on The Campus. The course content includes writing, editing, page layout, headline writing, and general editorial development. This course may be repeated three times.

Advisory on Recommended Preparation: ENGLISH 251, JOURNAL 1 or equivalent college course with "C" or better.

JOURNAL EDITORIAL BOARD 2 UNIT
104 a-d
Hours: 2 Lecture
1 Lab

This course provides advanced experience in all aspects of newspaper production. Students enrolled in the class are editors for The Campus. The course includes instruction in leadership techniques, editing, page design, and the legal aspects of newsgathering.

Advisory on Recommended Preparation: JOURNAL 1 and 103 or equivalent college courses with "C" or better.

JOURNAL PHOTO-JOURNALISM 3 UNITS
110a-d
Hours: 2 Lecture/Discussion
3 Lab
Cross Ref: PHOTO 110a-d
Material Fee: \$20.00

A course designed for students who would like practical publication experience and an opportunity to publish their photographs in the school newspaper.

Advisory On Recommended Preparation: PHOTO 1 or equivalent college course with "C" or better.

LEARNING DISABILITIES

LD COMPUTATION 1-3 UNITS
301a-d
Hours: 3-9 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. Students who have a history of learning deficits or low scores on the placement test can be referred to the class but must be evaluated first and qualify as learning disabled.

Advisory On Recommended Preparation: 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.

LD EXPRESSION 1-3 UNITS
302a-d
Hours: 3-9 Lab

Designed for the student with learning deficits in written expression of ideas, including difficulties with organization of ideas, clarity, grammar, punctuation and word usage. Instruction may include one-to-one, small group, computer-assisted or larger group instruction. Students who have a history of learning deficits or low scores on the written portion of the COS placement test can be referred to the class, but must be evaluated first and qualify as learning disabled.

Advisory On Recommended Preparation: 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.

LD DECODING/LANGUAGE 1-3 UNITS
303a-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. Students who have a history of learning deficits or low scores on the written portion of the COS placement test can be referred to the class, but must be evaluated first and qualify as learning disabled.

Advisory On Recommended Preparation: 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.

LD ORGANIZATION 1-3 UNITS
304a-d
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, quiet study area including instruction in word processing will be provided. Instruction may include on-to-one, small group, computer assisted or larger group instruction. Students who have a history of learning deficits or low scores on the written portion of the COS placement tests can be referred to the class, but first must be evaluated and qualify as learning disabled.

Advisory On Recommended Preparation: 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.

LD SEQUENCING 1-3 UNITS
305a-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. Students who have a history of learning deficits or low scores on the written portion of the COS placement tests can be referred to the class, but first must be evaluated and qualify as learning disabled.

Advisory On Recommended Preparation: 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

LIBRARY

LIBRARY 101 LIBRARY RESEARCH STRATEGIES 1 UNIT

Hours: SHORT TERM CLASS (A total of 6 weeks)
18 Lecture/Discussion
36 Homework hours

Approved for Distance Learning

This course offers instruction and practice in the use of print and electronic catalogs, reference books, periodical indexes, and other library materials, based on an understanding of research problem analysis.

LIBRARY 102 INTERNET INFORMATION RESOURCES 1 UNIT

Hours: SHORT TERM CLASS (A total of 6 weeks)
16 Lecture/Discussion
32 Homework hours

Internet Information Resources is an introductory course teaching students how to browse, locate and evaluate Internet information especially the World Wide Web for personal use as well as for research papers.

LIBRARY 103 TECHNICAL SERVICES 3 UNITS

Hours: SHORT TERM CLASS
48 Lecture/Discussion
96 Homework

Library 203 will cover current practices in cataloging and processing of library materials, the Dewey Decimal, Library of Congress, and Sears systems of classification, and filing rules for library materials. The use of electronic and online bibliographic resources, the repair and care of resources, and serials management will also be included.

LIBRARY 201 INTRODUCTION TO LIBRARIES 2 UNITS

Hours: SHORT TERM CLASS: TOTAL HOURS 96
27 Lecture/Discussion
10 Activity
59 Homework hours

Library 201 is an introduction to the changing field of library science, including the philosophy of library service, the history and types of libraries, organization and operation of libraries, and the role of the Library Media Technician. Basic skills necessary for employment in any type of library will be covered.

LIBRARY 202 COLLECTION DEVELOPMENT 2 UNITS

Hours: SHORT TERM CLASS: TOTAL HOURS 96
32 Lecture/Discussion
64 Homework hours

Library 202 will cover an introduction to the publishing industry, principles of collection development, bibliographic searching, accounting and budgeting principles, an overview of ordering, receiving and claiming procedures, and weeding the library collection.

Advisory on Recommended Preparation: LIBR 201 or equivalent college course with a grade of "C" or better.

LIBRARY 203 TECHNICAL SERVICES 3 UNITS

Total Hours: SHORT TERM CLASS
48 Lecture/Discussion
96 Homework hours

Library 203 will cover current practices in cataloging and processing of library materials, the Dewey Decimal, Library of Congress, and Sears systems of classification, and filing rules for library materials. The use of electronic and online bibliographic resources, the repair and care of resources, and serials management will also be included.

Advisory on Recommended Preparation: LIBR 201 or equivalent college course with a grade of "C" or better.

LIBRARY 204 SCHOOL/CHILDREN'S SERVICES 3 UNITS

Total Hours: SHORT TERM CLASS
48 Lecture/Discussion
96 Homework hours

Library 204 will cover Children's and School library services. Emphasis will be on the practical use of books and media in library media centers, booktalking, storytelling techniques, reading incentive programs, and children's literature. Students will learn about connecting library resources to the curriculum and collaborating with teachers to create resource rich lessons.

Advisory on Recommended Preparation: LIBR 201 or equivalent college course with a grade of "C" or better.

LIBRARY

LIBRARY 205 LIBRARY MEDIA SERVICES 2 UNITS

Total Hours: SHORT TERM CLASS
32 Lecture/Discussion
64 Homework hours

Library 205 provides in-depth study of a wide variety of media services and materials within a library setting including the Internet, compact disk, laser disk, telecommunications, video, and hypermedia. Students will learn programming using media and processing and circulating methods. Intellectual freedom, censorship, privacy, and copyright issues will also be presented.

Advisory on Recommended Preparation: LIBR 201 and LIBR 203 or equivalent college course with a grade of "C" or better.

LIBRARY 206 PUBLIC SERVICES/REFERENCE 3 UNITS

Total Hours: SHORT TERM CLASS
48 Lecture/Discussion
96 Homework hours

Library 206 covers library circulation systems, bibliographies, standard print and computer based reference, patron service skills, volunteer recruiting and supervising, library promotion, and handling of problem patrons.

Advisory on Recommended Preparation: LIBR 201 or equivalent college course with a grade of "C" or better.

LIBRARY 223a-b COLLEGE LEVEL TUTOR TRAINING 1 UNIT

Hours: SHORT TERM CLASS (A total of 6 weeks)
18 Lecture/Discussion

This short term course exposes students to and gives them practice in effective individual and group tutorial methods which may be applied to a variety of subject areas. Repeatable once, this course is designed to be taken concurrently with hands-on work as a college tutor.

Advisory on Recommended Preparation: Skill competencies as determined by departmental assessment.

LINGUISTICS

LING 10 INTRODUCTION TO LANGUAGE 3 UNITS

Hours: 3 Lecture/Discussion
6 Homework

The systematic study of language, including its nature, history, structure, acquisition, and use. Goals of course: to impart an understanding of the importance of language in humans' social and cultural affairs; to develop an appreciation for its diversity and complexity.

Advisory on Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

MATHEMATICS

MATH 15 COMPUTER SCIENCE 1 3 UNITS

Hours: 3 Lecture/Discussion
Materials Fees: \$2.00

Introduction to structured programming and algorithm design using the FORTRAN 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. CAN CSCI 4

Prerequisites: MATH 70 or equivalent college course with "C" or better, or eligibility for MATH 61 or 75 determined by COS Placement Procedures.

MATH 16 COMPUTER SCIENCE 1 - PASCAL 3 UNITS

Hours: 3 Lecture/Discussion
6 Homework

Materials Fee: \$2.00

Introduction to structured programming and algorithm design using the language of Pascal, including data types, program design, conditional control structures, looping, and subprograms. The emphasis will be on using the computer as a problem-solving tool.

Advisory on Recommended Preparation: MATH 70 or equivalent college course with "C" or better, or eligibility for MATH 61 or 75 determined by COS Placement Procedures (at a minimum, MATH 70 should be taken concurrently).

MATHEMATICS

MATH 18 COMPUTER SCIENCE 2 - C 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework **Materials Fee: \$2.00**

Introduction to structure programming and algorithm design using the C language, including discrete and dynamic data structures, program design, efficiency and testing, recursion, and search/sort algorithms. The emphasis will be on using the computer as a problem-solving tool.

Prerequisite: MATH 15, MATH 16, or equivalent college course with "C" or better.

MATH 21 INTRODUCTION TO STATISTICS 4 UNITS
Hours: 4 Lecture/Discussion
 8 Homework

Materials Fees: \$2.00

Approved for Distance Learning

An introductory course in probability and statistics for social and physical science majors, also appropriate for those who wish to learn statistical data analysis. Extensive use of computers will be made throughout the course. Distance learning option available. CAN STAT 2

Prerequisites: MATH 230 or equivalent college course with "C" or better; or eligibility determined by COS Placement Procedures. Placement Testing requirement may be waived (see Matriculation Policies; Exemption Criteria for Assessment).

MATH 45 MODERN APPLICATIONS OF MATHEMATICS 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework

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, and is designed primarily for non-science majors. Topics vary by instructor. CAN MATH 2.

Prerequisite: MATH 230 or MATH 235 with a grade of "C" or better; or eligibility determined by COS Placement Procedures. Placement Testing requirement may be waived (see Matriculation Policies; Exemption Criteria for Assessment).

MATH 61 SURVEY OF CALCULUS 1 3 UNITS
Hours: 3 Lecture/Discussion

A first semester course in a two semester sequence of differential and integral calculus for the business, industrial technology, biology, or social science major. It is also appropriate for those interested in acquiring an intuitive understanding of calculus. Topics include algebraic, exponential and logarithmic functions; limits, differentiation, the differential, and definite and indefinite integrals. Applications include graphing, optimization, related rates and average value with many example of the utility of calculus taken from biology and economics. CAN MATH 30.

Prerequisites: MATH 70 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures. Placement Testing requirement may be waived (see Matriculation Policies; Exemption Criteria for Assessment).

MATH 62 SURVEY OF CALCULUS 2 3 UNITS
Hours: 3 Lecture/Discussion

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. CAN MATH 32.

Prerequisite: MATH 61 or equivalent college course with "C" or better.

MATH 70 PRECALCULUS 5 UNITS
Hours: 5 Lecture/Discussion

This is a college algebra and advanced trigonometry course which proceeds at an intense pace. Topics include: functions and graphs, applications of functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry, right-triangle trigonometry and vectors, systems of equations, analytic geometry, and roots of polynomial equations. This course is intended for students planning to take calculus. CAN MATH 16.

Prerequisites: MATH 154 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures. Placement Testing requirement may be waived (see Matriculation Policies; Exemption Criteria for Assessment).

MATHEMATICS

MATH 75 CALCULUS WITH ANALYTIC GEOMETRY 1 5 UNITS
Hours: 5 Lecture/Discussion
 10 Homework

This is the first calculus course of a three semester sequence. Topics include limits, differentiation, integration and continuity of algebraic, trigonometric, inverse trigonometric, and hyperbolic functions. Applications include exponential growth, related rates, graphing, extrema, area, volume, work, and average value.. CAN MATH 18.

Prerequisites: MATH 70 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures. Placement testing requirement may be waived (see Matriculation Policies; Exemption Criteria for Assessment).

MATH 76 CALCULUS WITH ANALYTIC GEOMETRY 2 5 UNITS
Hours: 5 Lecture/Discussion
 10 Homework

This is the second calculus course of a three semester sequence. Topics include techniques of integration, improper integrals, infinite series, analytic geometry, polar coordinates and parametric equations, vectors, and three-dimensional space. Numerous applications will be covered. CAN MATH 20.

Prerequisites: MATH 75 or equivalent college course with "C" or better.

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. CAN MATH 22.

Prerequisites: MATH 76 or equivalent college course with "C" or better.

MATH 80 LINEAR ALGEBRA 3 UNITS
Hours: 3 Lecture/Discussion

Introduction to linear algebra including systems of linear equations, vectors, matrices and determinants, two- and three-dimensional vectors, vector spaces, linear transformations, eigenvalues and eigenvectors, and canonical forms. CAN MATH 26.

Prerequisites: MATH 62 or MATH 76 with "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. CAN MATH 24.

Prerequisites: MATH 77 or equivalent college courses with "C" or better.

Advisory On Recommended Preparation: MATH 80 or equivalent college course with "C" or better.

MATH 154 TRIGONOMETRY 3 UNITS
Hours: 3 Lecture/Discussion

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. CAN MATH 8.

Prerequisites: MATH 230 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures.

Advisory On Recommended Preparation: MATH 220 or equivalent college course with "C" or better, or high school geometry with "C" or better in both semesters.

MATH 200 ELEMENTARY ALGEBRA 4 UNITS
Hours: 4 Lecture/Discussion
 8 Homework

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 and exponents.

Advisory On Recommended Preparation: MATH 360, 361 or 365 or equivalent college course with "C" or better, or eligibility determined by COS Placement Procedures.

MATHEMATICS

MATH 201 INTERMEDIATE ALGEBRA PREPARATION 4 UNITS
Hours: SHORT TERM CLASS - 4 weeks in the Summer
 56 Lecture/Discussion
 24 Lab
 112 Homework

This is a four-week intensive summer course designed for incoming students to prepare for intermediate algebra. Course is appropriate for students who have an understanding of elementary algebra, but need a refresher before taking intermediate algebra.

Advisory On Recommended Preparation: Eligibility determined by the COS Placement Procedures.

Limitation on Enrollment: Students must participate in the SMART Project.

MATH 205 BEGINNING ALGEBRA 4 UNITS
Hours: 5 Lecture/Discussion
 10 Homework

This is a five-day-a-week, one-semester course in beginning algebra covering: fundamental operations, linear equations and inequalities, word problems, factoring, rational expressions, graphing, and exponents. This course will benefit students who need more time on task, student-to-teacher contact, and a slower paced environment.

Advisory on Recommended Preparation: MATH 360 or MATH 365 or equivalent college course with "C" or better; or eligibility determined by COS Placement Procedures.

MATH 210 ELEMENTARY ALGEBRA 1 2 UNITS
Hours: SHORT TERM CLASS: (A total of 8 weeks)
 40 Lab

This is an intensive course in elementary algebra (part 1) covering fundamental operations, linear equations and inequalities, systems of equations, graphing, and word problems.

Advisory On Recommended Preparation: MATH 360 or 365 or equivalent college course with "C" or better, or eligibility determined by COS Placements Procedures.

MATH 215 ELEMENTARY ALGEBRA 2 2 UNITS
Hours: SHORT TERM CLASS: (A total of 8 weeks)
 40 lab hours

This is an intensive course in elementary algebra (part 2) covering factoring, rational expressions, exponents, radicals, and word problems.

Prerequisite: MATH 210 with "C" or better.

MATH 220 PLANE GEOMETRY 3 UNITS
Hours: 3 Lecture/Discussion

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.

Prerequisite: MATH 200 or 215 or 205, or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures.

MATH 230 INTERMEDIATE ALGEBRA 4 UNITS
Hours: 4 Lecture/Discussion
 8 Homework

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.

Prerequisite: MATH 200, 201 or 205, or equivalent college course with a grade of "C" or better, or eligibility determined by COS Placement Procedures.

MATH 235 MATHEMATICS FOR MATH-RELATED MAJORS 4 UNITS
Hours: 5 Lecture/Discussion

An intensive one-semester course in college algebra and elementary functions covering: linear and quadratic equations and inequalities in one and two variables; polynomial, rational, exponential, radical, and logarithmic functions; problem-solving, and graphing. This course is intended for students planning on a mathematics, engineering, or science major.

Prerequisite: Completion of MATH 200 or 205 or MATH 201 or equivalent college course with a grade of "C" or better, or eligibility determined by COS Placement Procedures.

MATHEMATICS

MATH 351 PRE-ALGEBRA PREPARATION 4 UNITS
Hours: SHORT TERM CLASS - 4 week Summer Course
 56 Lecture/Discussion
 24 Lab
 112 Homework

Math 351 is a non-degree applicable, arithmetic course designed for incoming students. It is a four-week course offered only in summer. This course is appropriate for students who need more emphasis on the fundamental arithmetic topics than is allowed for in Math 360. Topics include whole numbers, decimals, and fractions.

Advisory on Recommended Preparation: Eligibility determined by COS Placement Procedures.

Limitation on Enrollment: Students must participate in the SMART Project.

MATH 360 PRE-ALGEBRA 4 UNITS
Hours: 4 Lecture/Discussion

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-degree applicable arithmetic course to benefit students who need a firmer grasp of arithmetic concepts and skills.

Advisory On Recommended Preparation: Recommendation through COS Placement Procedures. The Placement Test requirement may be waived.

MATH 361 ELEMENTARY ALGEBRA PREPARATION 4 UNITS
Hours: SHORT TERM CLASS - 4 week Summer Course
 56 Lecture/Discussion
 24 Lab
 112 Homework

Math 361 is a non-degree applicable, pre-algebra course designed for incoming students. It is a rigorous four-week course offered only in summer. This course is appropriate for students who are familiar with arithmetic and possibly some basic algebra, but who have not mastered the topics well enough to succeed in elementary algebra.

Advisory on Recommended Preparation: Eligibility determined by COS Placement Procedures.

Limitation on Enrollment: Students must participate in the SMART Project.

MATH 365 ARITHMETIC AND PRE-ALGEBRA 4 UNITS
Hours: 5 Lecture/Discussion
 10 Homework

Math 365 is a non-degree applicable pre-algebra course designed to help students who need a firmer grasp of arithmetic concepts and skills. This course will benefit students who need more time on task, student to teacher contact, and a slower paced environment. It requires a minimum of 10 hours of study per week outside of class.

Advisory on Recommended Preparation: Recommendation through COS Placement Procedures. The Placement Test requirement may be waived.

METEOROLOGY

METEOR 1 ELEMENTARY METEOROLOGY 3 UNITS
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 meteorological-environmental problems by examining the relationship between man and the atmosphere.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures; and MATH 200, 205, or 215 or equivalent college course with "C" or better, or eligibility for MATH 230 determined by COS Placement Procedures.

MUSIC

- MUSIC 1 MUSIC FUNDAMENTALS 3 UNITS**
Hours: 3 Lecture/Discussion
 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 I 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, sight-singing, and keyboard skills. The integrated approach of this course is designed to encourage practical application of theoretical concepts.
 CAN MUS 2.
Advisory On Recommended Preparation: MUSIC 1 or equivalent college course with "C" or better; and instrumental or vocal performance and/or class piano.
- 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.
 CAN MUS 4.
Prerequisite: MUSIC 4 or equivalent college course with "C" or better; and instrumental or vocal performance and/or class piano.
- 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-analytical-compositional 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, sight-singing, and keyboard musicianship. The integrated approach of this course is designed to encourage practical application of theoretical concepts.
Prerequisite: MUSIC 5 or equivalent college course with "C" or better; and instrumental or vocal performance and/or class piano.
- 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.
Advisory on Recommended Preparation: MUSIC 6 or equivalent college course with "C" or better; and instrumental or vocal performance and/or class piano.
- MUSIC 8a-b ORCHESTRATION 3 UNITS**
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.
Advisory On Recommended Preparation: MUSIC 4 and 5 or equivalent college courses with "C" or better.
- MUSIC 10 APPRECIATION OF MUSIC HISTORY AND LITERATURE 3 UNITS**
Hours: 3 Lecture/Discussion
 Designed to aid the average student in developing a better understanding and an enjoyment of music. Includes (1) the elements of music, and (2) a chronological survey of music and composers from the Middle Ages to the present. No previous musical training is necessary.

MUSIC

- MUSIC 11 APPRECIATION OF JAZZ 3 UNITS**
Hours: 3 Lecture/Discussion
 Designed to aid the average student in developing a better understanding and enjoyment of jazz and music in general. Includes (1) the elements of music, (2) a chronological survey of jazz performers and composers from the 1890's to the present, and (3) an introduction to the beginnings of rock and country music.
- MUSIC 13 MUSIC OF THE WORLD 3 UNITS**
Hours: 3 Lecture/Discussion
 A survey of the traditional and popular musics of the world. It begins with a study of the elements of music, and continues with a survey of musical genres and styles of the Americas, Sub-Saharan Africa, Northern Africa and the Middle East, Europe, Asia, and the Pacific Islands. Various fusions of these regional styles are also discussed.
- MUSIC 20 PIANO I 1 UNIT**
**Hours: 1 Lecture/Discussion
1 Lab**
 Designed for the student who has had no previous piano 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.
- MUSIC 21 PIANO II 1 UNIT**
**Hours: 1 Lecture/Discussion
1 Lab**
 Designed for the student who has had one semester previous piano 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.
Advisory On Recommended Preparation: MUSIC 20 or equivalent college course with "C" or better, or one year of private piano instruction.
- MUSIC 22a-d INTERMEDIATE/ADVANCED PIANO 1 UNIT**
**Hours: 2 Lecture/Discussion
1 Lab**
 Designed for the intermediate pianist 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 piano through different periods of history to the present in our country as well as foreign countries.
Advisory On Recommended Preparation: MUSIC 21 or equivalent college course with "C" or better, or more than one year of private piano instruction.
- MUSIC 23a-d ORGAN I, II, III AND IV 1 UNIT**
**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 piano, 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 as scales and arpeggios on both manual and pedal keyboards, to strengthen finger, wrist, foot, ankle, and hand/foot body muscles.
Limitation On Enrollment: Audition by department; intended for students with one year keyboard in either piano, organ or accordion.
- MUSIC 30a-d VOICE 1 UNIT**
**Hours: 1 Lecture/Discussion
1 Lab
1 Homework**
 Studies in the technical, stylistic, and aesthetic components of singing, designed to help the individual student improve his/her voice and develop solo vocal repertoire. This course may be repeated three times.

Course Discriptions

MUSIC

MUSIC 31a-d INTERMEDIATE VOICE 1 UNIT

Hours: 1 Lecture/Discussion
1 Lab
1 Homework

Studies in the technical, stylistic, and aesthetic components of singing, designed to help the individual repertoire. Intermediate Voice is a continuation of MUSIC 30, and will require that the student has good singing and musical skills already established. Emphasis will be placed upon singing in Italian, German, and English. This course may be repeated three times.

Advisory on Recommended Preparation: MUSIC 30a-d or equivalent college course with "C" or better.

MUSIC 32a-d WOMEN'S CHORUS 1 UNIT

Hours: 2 Activity

Music 32a-d offers a study and performance of choral literature for treble voices from the Renaissance to Contemporary emphasis on vocal production and tone quality, balance and blend, and musical precision and accuracy. Participation in public performance is required.

MUSIC 34a-d CONCERT CHOIR 2 UNITS

Hours: 2 Lecture/Discussion
3 Lab
1 Homework

Materials Fee: \$5.00

Music 34a-d offers a study and the performance of choral literature from the Renaissance to Contemporary with emphasis on vocal production and tone quality, balance and blend, and musical precision and accuracy. Participation in public performance is required. The course may be repeated three times.

Limitation On Enrollment: Audition by department.

MUSIC 36a-d CHAMBER SINGERS 2 UNITS

Hours: 2 Lecture
3 Lab
1 Homework

Music 36a-d is designed to provide an environment for study of choral literature, techniques and performance with experienced vocal students. This course may be repeated three times.

Limitation On Enrollment: Audition by department.

MUSIC 40a-d PERFORMANCE MUSIC 1 UNIT

Hours: 2 Lab

Performance in music activities such as recitals, rallies, musicals, concerts, or in groups ensembles such as band, chorus, orchestra, and jazz ensemble. Hours are arranged for those wishing to participate but are unable to meet the regular schedule. Physical education credit is not granted.

Limitation On Enrollment: Audition by department.

MUSIC 50a-d STRING INSTRUMENTS 1 UNITS

Hours: 1 Lecture/Discussion
1 Lab

This course provides beginning instruction on instruments of the string family. These include, violin, viola, cello, and bass. Emphasis will be on care of instruments, tone production, bowing, technique, and playing position.

MUSIC 52a-d STRING ORCHESTRA 1 UNIT

Hours: 2 Lab

A study and performance of string orchestra 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.

Limitation On Enrollment: Audition by department; intended for students who play a string instrument.

MUSIC

MUSIC 53a-d YOUTH SYMPHONY OF THE SEQUOIAS 2 UNITS

Hours: 1 Lecture/Discussion
2 Lab
3 Homework

The study and performance of full symphonic music. Representative works of orchestral literature from many cultures and historical periods are analyzed in context. Orchestral works are chosen to enhance and develop the knowledge and performing abilities of younger, less experience orchestral musicians. The course may be repeated three times.

MUSIC 54a-d SYMPHONY ORCHESTRA 2 UNITS

Hours: 1 Lecture/Discussion
2 Lab

The study and performance of symphonic music. Intended for advanced musicians of orchestra instruments.

Limitation On Enrollment: Audition with department.

MUSIC 55a-b BEGINNING CLASSICAL GUITAR 1 UNIT

Hours: 2 Lab

Beginning Classical Guitar, MUSIC 55a-b, is designed to familiarize students with the fundamentals of solo classical guitar playing and specifically to develop note-reading ability and technique for both hands. This course may be repeated once.

MUSIC 56a-b INTERMEDIATE CLASSICAL GUITAR 1 UNIT

Hours: 2 Lab
1 Homework

Intermediate Classical Guitar, MUSIC 56a-b, is designed to further familiarize students with the fundamentals of solo classical guitar playing and specifically, to develop note-reading ability up to the fifth position and more complex techniques for both hands. The course is repeatable one time.

Advisory on Recommended Preparation: MUSIC 55a or equivalent college course with "C" or better.

MUSIC 57a-d ADVANCED CLASSICAL GUITAR 2 UNITS

Hours: 6 Lab

Advanced Classical guitar, MUSIC 57a-d, is designed to familiarize students with more complex solo and ensemble classical guitar literature and specifically, to develop note-reading ability up to the ninth position and more advanced technique for both hands. This course may be repeated three times.

Advisory on recommended Preparation: MUSIC 56a or equivalent college course with "C" or better or, equivalent skills as determined by departmental assessment.

MUSIC 60a-d BRASS INSTRUMENTS 1 UNIT

Hours: 1 Lecture/Discussion
1 Lab

This course provides beginning instruction on instruments of the brass family. Emphasis will be on care of Instruments, tone production, breathing technique and playing position.

Advisory On Recommended Preparation: Knowledge of one or more instruments.

MUSIC 61a-d PERCUSSION INSTRUMENTS 1 UNIT

Hours: 1 Lecture/Discussion
1 Lab

This course provides beginning instruction on instruments of the percussion family. Emphasis will be on the care of instruments, tone production, proper grips, technique and playing position.

Advisory On Recommended Preparation: Knowledge of one or more instruments.

MUSIC

MUSIC **WOODWINDS INSTRUMENTS** **1 UNIT**
62 a-d
Hours: **1 Lecture/Discussion**
 1 Lab

This course provides beginning instruction on instruments of the woodwind family. These include, flute, clarinet, oboe, saxophone and bassoon. Emphasis will be on care of instruments, tone production, embouchure development, technique and playing position.
Advisory On Recommended Preparation: Knowledge on one or more instruments.

MUSIC **PERCUSSION ENSEMBLE** **1 UNIT**
63 a-d
Hours: **1 Lecture/Discussion**
 1 Lab

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 skills. Some outside travel, field trips, and public performances are required. Intended for advanced musicians of percussion instruments.

Limitation On Enrollment: Audition by department.

MUSIC **GUITAR ENSEMBLE** **1 UNIT**
65a-d
Hours: **3 Lab**

Guitar ensemble, MUSIC 65a-d, is designed to familiarize students with group classical guitar playing in general, and specifically to develop steady rhythm and improved sightreading. This course may be repeated three times.

Advisory on Recommended Preparation: MUSIC 55a or equivalent college course with "C" or better.

MUSIC **JAZZ ENSEMBLE 1** **2 UNIT**
72a-d
Hours: **2 Lecture/Discussion**
 3 Lab
 1 Homework

A study and performance of jazz ensemble repertory with special attention to interpretation, tone, technique, and general effect. Planned for those interested in improving their musicianship and improvisational skills. Some outside travel and public performances are required. This course may be repeated three times.

MUSIC **CONCERT BAND 1** **2 UNIT**
74 a-d
Hours: **2 Lecture**
 3 Lab
 1 Homework

A study of performance of standard concert band repertory with special attention to interpretation, tone, technique, and general effect. All basic concepts of musicianship will be stressed through lecture, discussion, and rehearsals with the final goal of performing in public concerts. The music that is rehearsed, read and performed is rarely repeated from semester to semester. Some outside travel, field trips and public performances are required. This course may be repeated three times.

Advisory on Recommended Preparation: Intended for students with high school band experience or an equivalent type of experience.

MUSIC **PEP BAND** **1 UNIT**
76a-d
Hours: **2 Lab**

This course is designed for students who are interested in performing in smaller groups at athletic functions (basketball, football, volleyball, etc.). This class is an extension of the marching band and will occasionally use some of the same literature.

Advisory On Recommended Preparation: MUSIC 75a or equivalent college course with "C" or better (MUSIC 75a may be taken concurrently).

Limitation On Enrollment: Audition by department; intended for advanced musicians of band instruments.

MUSIC

MUSIC **COLLEGE COMMUNITY CHORUS** **1 UNIT**
90a-d
Hours: **1 Lecture**
 1 Lab
 1 Homework

College Community Chorus 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. This course may be repeated three times.

MUSIC **REHEARSAL** **2 UNITS**
91a-d **AND PERFORMANCE LAB**
Hours: **120 Activity (8 weeks , 15 hrs. per week)**

The College of the Sequoias Musical Theater Orchestra will emphasize the rehearsal and performance techniques necessary to accompany in the production of a musical.
Limitation On Enrollment: Audition by department; intended for advanced musicians of orchestral instruments.

MUSIC **NIGHT JAZZ ENSEMBLE** **1 UNIT**
92a-d
Hours: **3 Lab**

A study and performance of jazz ensemble repertory with special attention to interpretation, tone, technique, and general effect. Planned for those interested in improving their musicianship and improvisational skills. Some outside travel and public performances are required.

Limitation On Enrollment: Audition by department; intended for advanced musicians of jazz band instruments.

MUSIC **COMMUNITY DANCE BAND** **1 UNIT**
94 a-d
Hours: **3 Lab**

A study and performance of dance band repertory with special attention to interpretation, tone, technique, and general effect. Planned for those interested in improving their musicianship and improvisational skills. Some outside travel and public performances are required.

Limitation On Enrollment: Audition by department; intended for advanced musicians of jazz band instruments.

MUSIC **MUSICAL THEATRE PERFORMANCE: VOICE** **2 UNITS**
97a-d
Hours: **120 Activity (8 weeks, 15 hrs. per week)**

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 and experience in all facets of the theater.

MUSIC **SIGHT SINGING AND BASIC** **1 UNIT**
111a-b **FUNDAMENTALS OF MUSIC**
Hours: **1 Lecture/Discussion**
 1 Lab

A practical course in sight singing, aural perception, and rhythmic analysis including the study of notes/rests, scales, triads, key and meter signatures, intervals and musical terminology.

MUSIC **FIELD STUDIES IN MUSIC** **2 UNITS**
125 a-d
Hours: **SHORT TERM CLASS (17 days)**
 36 Lecture/Discussion
 108 Lab

FEE REQUIRED

A critical analysis of the Performing Arts (Musical concerts, plays, etc.) from an audience perspective. Elements of Early Instrumentation, Musical Styles and form in various periods as they relate to music history will be explored. Students will travel to England, Scotland, and Wales, or other sites to attend concerts, plays, museums, musicals, and new cathedral organ installations, and castle artifacts. Fee will cover round trip air fare, transfers to and from airport, hotel room, and concert entrance fees.

Course Descriptions

MUSIC

MUSIC JAZZ COMBO 2 UNITS

174a-d
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.

Limitation On Enrollment: Audition by department; intended for advanced musicians of jazz band instruments.

MUSIC NIGHT STUDIO BAND 1 UNIT

183a-d
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.

Limitation On Enrollment: Audition by department; intended for advanced musicians of jazz band instruments.

MUSIC KEYBOARD ACCOMPANIMENT 1 UNIT

224a-d
Hours: 2 Lecture/Discussion
 1 Lab

This course involves small groups, such as soloist and ensembles in vocal, string, brass and the larger groups such as a symphony and chorus. Other items covered would be the utilization of the synthesizer and computer, musical theatre auditions, as well as duets between piano/piano, piano/organ, organ/organ (liturgical vs. theatre).

Limitation On Enrollment: Audition by department.

MUSIC MADRIGAL DINNER 1 UNIT

242a-d
Hours: 60 Activity (15 hrs. per week, 4 weeks)

The Madrigal Dinner is an Elizabethan (Shakespearean/Renaissance) Feast performed by singers, instrumentalists, actors, court jesters, mimes, tumblers, and others structured around a formal meal served in several courses announced by brass fanfares. Authenticity of music, drama, costuming, staging and all aspects of the performance is essential. A Christmas theme serves as the central focus of the dinner which is traditionally presented several evenings in late November and/or early December.

MUSIC DIXIELAND BAND 1 UNIT

270a-d
Hours: 2 Lab

A study and performance of Dixieland 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.

Limitation On Enrollment: Audition by department; intended for advanced musicians of Dixieland band instruments.

MUSIC JAZZ ENSEMBLE 3 1 UNIT

293a-d
Hours: 3 Lab
 1 Homework

Advanced study and performance of jazz ensemble repertory for musicians aspiring to a professional level of jazz ensemble playing. Some outside travel and public performances are required. This course may be repeated three times.

Limitation On Enrollment: Audition by department; intended for advanced musicians of jazz band instruments.

MUSIC

MUSIC JAZZ IMPROVISATION 1 UNIT

294a-d
Hours: 3 Lab

This is a course in developing the ability to spontaneously improvise music on an instrument to a musical background provided by a large jazz ensemble. The course will cover the application of improvisational techniques found in jazz music. This course may be repeated three times.

Prerequisite: The student must have a basic knowledge of music theory (Theory 1) and the ability to perform on an instrument used in the large jazz ensemble. Enrollment by audition or by permission of the music department only. Demonstrated performance of major and minor scales and chords.

MUSIC SEQUOIA WINDS 1 UNIT

295a-d
Hours: 2 Lab

A study and performance of standard symphonic band repertory with special attention to interpretation, tone, technique, and general effect. Planned for those interested in improving their musicianship. Some outside or public performances are required.

Advisory On Recommended Preparation: Intended for all advanced musicians of concert band instruments.

MUSIC INTRODUCTION TO MUSIC 3 UNITS

301
Hours: 3 Lecture/Discussion

This is a precollegiate course designed to help students develop the competence and confidence necessary for successful college study in both academic and vocational courses. It is an introductory course with a broad focus. Topics will be covered in media presentation, primarily videos, and in discussions. Selected composers, performers, and styles (including classical, popular and international) will be explored as reflections of their cultural contexts.

MUSIC SWING-STYLE BIG BAND 1 UNIT

396 a-d
Hours: 3 Lab

A terminal course which rehearses all types of music performed by the big bands of the 1930's, 40s and 50s. Some outside travel and public performances are required.

Limitation On Enrollment: Audition by department; intended for advanced musicians of jazz band instruments.

NURSING

NURSING REGISTERED NURSING THEORY 1 11 UNITS

101
Hours: 6 Lecture/Discussion
 15 Lab
 34 Homework

Materials Fee: \$25.00

This course is an introduction to the elements of patient centered care based on the nursing process. It emphasizes human needs of the patient with various program threads introduced throughout the semester. Using critical thinking and under the supervision of an instructor, the student gives nursing care to selected patients in the clinical setting.

Prerequisites: BIOLOGY 30, 31, 40, CHEMISTRY 20, NUTR/FOOD 18 and ENGLISH 1, PSYCH 1, SPEECH 1 or 4, and either SOC 1, ANTHRO 10, or NURSING 106 or equivalent college courses with "C" or better.

Corequisite: NURSING 122.

Limitation On Enrollment: Acceptance into the Registered Nursing Program.

NURSING REGISTERED NURSING THEORY 2 12 UNITS

102
Hours: 6 Lecture/Discussion
 18 Lab
 36 Homework

Materials Fee: \$46.00

Nursing 102 is a study of the application of the nursing process in meeting the human needs of the basic medical-surgical patient in the acute care setting and psychiatric patients in both inpatient and outpatient settings.

Prerequisite: NURSING 101 and 122 or equivalent college course with "C" or better.

NURSING

NURSING REGISTERED NURSING THEORY 3 12 UNITS

103
Hours: 6 Lecture/Discussion
18 Lab
36 Homework

Materials Fee: \$40.00

Within the conceptual framework and the philosophy of the Division of Nursing and Health Science, Nursing 103 will study the patient/family with advanced medical and surgical problems and perinatal needs.

Prerequisites: NURSING 102 or equivalent college course with "C" or better; or licensure as a Vocational Nurse and NURSING 122 or equivalent with "C" or better, and acceptance into the Registered Nursing Program.

NURSING REGISTERED NURSING THEORY 4 13 UNITS

104
Hours: 6 Lecture/Discussion
21 Lab
20 Homework

Materials Fee: \$40.00

The fourth semester Registered Nursing course is a study of the nursing process centered on the human needs of individuals in acute and long term health care settings. It includes care of the pediatric client and family in acute case and outpatient health care settings; patients with long term health care needs which are met in community settings; and the leadership role of the Registered Nurse in acute care settings. Clinical experience is directed toward assuming broad responsibility for providing optimal nursing care for patients, including planning, coordinating, teaching, and utilizing health care resources. **Prerequisite:** NURSING 103 or equivalent college course with "C" or better.

NURSING CULTURAL DIVERSITY IN 3 UNITS

106 HEALTH AND ILLNESS

Hours: 3 Lecture/Discussion

This course is 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.

Advisory On Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.

NURSING RN THEORY: PERINATAL NURSING 4 UNITS

113
Hours: SHORT TERM CLASS (Total hours: 210)
34 Lecture/Discussion
102 Lab
74 Homework

Within the conceptual framework and philosophy of the Division of Nursing and Health Science, this course explores the perinatal patient/family in both acute and outpatient settings. This course is designed for the LVN or the advanced placement nursing student.

Prerequisite: NURSING 102 or equivalent college course with "C" or better, or licensure as a LVN and NURSING 122 or equivalent course with a "C" or better.

Limitation Request on Enrollment: Acceptance into the Registered Nursing Program.

NURSING RN THEORY: ADVANCED MEDICAL-SURGICAL 8 UNITS

114
Hours: SHORT TERM CLASS (Total hours: 408)
68 Lecture/Discussion
204 Lab
136 Homework

Within the conceptual framework and the philosophy of the Division of Nursing and Health Science, this course explores the patient/family with advanced medical and surgical nursing problems. This course is designed for the licensed Vocational Nurse or the advanced placement student.

Prerequisite: NURSING 102 or equivalent college course with "C" or better, or licensure as a LVN and NURSING 122 or equivalent course with a "C" or better and current IV certification.

Limitation Request on Enrollment: Acceptance into the Registered Nursing Program.

NURSING

NURSING RN THEORY: PSYCHIATRIC NURSING 4 UNITS

116
Hours: SHORT TERM CLASS (Total hours: 204)
34 Lecture/Discussion
102 Lab
68 Homework

Psychiatric nursing is a study of the application of the nursing process to meet the human needs of the psychiatric patient in both acute care and outpatient settings. Clinical experience focuses on providing physiologic and psychosocial nursing care of patients and their families who have psychiatric needs.

Prerequisite: NURSING 102 or equivalent college course with "C" or better, or licensure as a LVN and NURSING 122 or equivalent course with a "C" or better and current IV certification.

Limitation Request on Enrollment: Acceptance into the Registered Nursing Program.

NURSING RN THEORY: PEDIATRIC NURSING 4 UNITS

117
Hours: SHORT TERM CLASS
34 Lecture/Discussion
102 Lab
74 Homework

The pediatric nursing course is a study of the nursing process centered on the human needs of children and their families in acute hospital and community settings. Clinical experience is directed toward assuming broad responsibility for providing optimal nursing care of patients, including planning, coordinating, teaching, and utilizing health care resources.

Prerequisite: NURSING 103 or equivalent college course with a grade of "C" or better.

NURSING RN THEORY: LEADERSHIP AND MANAGEMENT 5 UNITS

118
Hours: SHORT TERM CLASS
34 Lecture/Discussion
144 Lab
74 Homework

This course is a study of the leadership role of the nurse. The student assumes broad responsibility for providing optimal nursing care for groups of patients, including planning, coordinating, teaching, and utilizing health cre resources. It is intended for the LVN to RN student or other avanced placment student after admission to the COS, RN Program.

Prerequisite: NURSING 103 or equivalent college course with a grade of "C" or better.

Limitation Request on Enrollment: Acceptance into the RN Program.

NURSING RN THEORY: COMMUNITY NURSING 4 UNITS

119
Hours: SHORT TERM CLASS
34 Lecture/Discussion
102 Lab
74 Homework

This course is a study of the nursing process centered on the client in his/her natural environment, in the context of the family and community. The goal is to encourage health maintenance and focus on prevention and continuity of care. The course is intended for the LVN to RN or other advanced placement student after admission to the COS, RN Program.

Prerequisite: NURSING 103 or equivalent college course with a grade of "C" or better

Limitation Request on Enrollment: Acceptance into the RN Program.

NURSING PERIOPERATIVE 4 UNITS

120 NURSING
Hours: SHORT TERM CLASS (A total of 144 hours)
36 total hours of lecture
108 total hours of 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 post-operative phases of surgical intervention.

Prerequisite: NURSING 101 and 122 or equivalent college courses with "C" or better, or permission of department.

Course Descriptions

NURSING

NURSING	FOUNDATIONS OF NURSING PRACTICE	2 UNITS
122		
Hours:	1 Lecture/Discussion	
	3 Lab	
	2 Homework	
<p>Based on the human needs approach, this course provides the framework for nursing practice, critical thinking skills from the foundation to the five step nursing process; assessment, diagnosis, planning, implementation, and evaluation. The assessment phase is emphasized so students will recognize normal range of patient assessment data.</p> <p>Prerequisites: BIOLOGY 30, 31, 40, CHEMISTRY 20, NUTR/FOOD 18, and ENGLISH 1 or PSYCH 1, SPEECH 1 or 4, and either SOC 1, ANTHRO 10, or NURSING 106 or equivalent college courses with "C" or better or licensure as a Vocational Nurse and permission of the department.</p> <p>Corequisite: NURS 101</p> <p>Limitation On Enrollment: Acceptance into the Registered Nursing Program.</p>		
NURSING	CARE OF THE PATIENT IN ICU	4 UNITS
125		
Hours:	SHORT TERM CLASS (A total of 144 hours)	
	36 hours of lecture	
	108 hours of lab	
<p>This is a study of nursing intervention focused on the needs of the crucially 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.</p> <p>Prerequisites: NURSING 103 or equivalent college course with "C" or better, or licensure as a Vocational Nurse and permission of department.</p>		
NURSING	SUPERVISED CLINICAL PRACTICE	3 UNITS
126		
Hours:	24 Lab (A total of 144 hours of lab)	
<p>This course is designed for the ongoing Registered Nursing student, providing extended opportunity for laboratory practice. The student will use the nursing process to plan and implement nursing care for a variety of medical/surgical clients, utilizing skills at the student level of achievement. Under supervision, students will perform nursing skills and have opportunity for indepth exploration of nursing practice in the clinical setting.</p> <p>Advisory On Recommended Preparation: NURSING 101 or equivalent college course with "C" or better.</p>		
NURSING	ONCOLOGY NURSING	6 UNITS
127		
Hours:	SHORT TERM CLASS (A total of 6 weeks)	
	4 Lecture/Discussion	
	24 Lab	
<p>This course is designed to increase student understanding of the patho-physiologic process of cancer and the psycho-social effect upon the client and family. The student will utilize the nursing process to plan and implement individualized care of the oncology client.</p> <p>Prerequisite: NURSING 101 or equivalent college course with "C" or better.</p>		
NURSING	MENTORSHIP: TRANSITION FROM STUDENT TO NURSE	1 UNIT
134		
Hours:	1 Lecture/Discussion	
<p>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.</p> <p>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 104 students.</p>		

NURSING

NURSING	INTRODUCTION TO AGING	3 UNITS
136		
Hours:	3 Lecture	
	3 Lab	
	3 Homework	
<p>An introductory course covering topics in gerontology/aging; demographics, theories, concepts, perspectives, and research, including biophysical, psychosocial, cultural, political, and ethnic topics which impact individuals, families, and society.</p>		
NURSING	CLINICAL APPLICATION OF PHARMACOLOGY	2 UNITS
211		
Hours:	Short-term lab class: 105 total hours	
<p>This is a short-term lab class that will allow the student to apply concepts of pharmacology through drug research, administration, and evaluation of the patients response to the medication. The student will experience a dramatic increase in the volume, variety, and routes of drug administration, and will experience an increased level of responsibility/accountability with this process.</p> <p>Prerequisite: NURSING 101 or equivalent course with a "C" or better grade.</p>		
NURSING	INTRODUCTION TO COMPUTERS IN HEALTH CARE EDUCATION	1 UNIT
212		
Hours:	8 Lecture	
	24 lab	
<p>This course introduces the student to operation, use, limitations, and applications of computers in health care education. The student will become familiar with software used in the RN program, search out health-related information on the Internet, and become familiar with the format for writing clinical laboratory research.</p>		
NURSING	IN-HOME SUPPORTIVE SERVICES PROVIDER	1 UNIT
301		
Hours:	20 Lecture Short Term Course	
	10 lab	
<p>This is a short term class which will provide training to allow individuals to assist ill, elderly, and disabled people in their homes. The classes are designed to teach students how to provide supportive services and to teach a philosophy of caring and techniques for assisting people in meeting daily needs at home.</p>		
NURSING	PREPARING FOR HEALTH CARE CAREERS	2 UNITS
310	SHORT TERM CLASS	
Hours:	32 Lecture/discussion	
	96 Homework	
<p>This course assists any new or returning college student to be successful. Assessment and application of individual learning styles are done. Learning skill such as note-taking, testing, and writing are reviewed. Basic arithmetic, problem-solving skills, library and computer resources, means to manage money, and stay healthy are discussed.</p>		
NURSING	PRE-NURSING SUCCESS	1 UNIT
311	SHORT TERM CLASS: TOTAL HOURS 48	
Hours:	16 Lecture/discussion	
	32 Homework	
<p>This course will prepare the pre-nursing student to be successful in the Registered Nursing Program. The student will refine critical thinking and problem solving skills. Arithmetic skills will be reviewed. The nursing process and care plan writing will be introduced. Community resources for the nontraditional student will be identified</p>		
NURSING	NURSING PROGRAM SUPPORT	2 UNITS
315a-d		
Hours:	2 Lecture/Discussion	
	4 Homework	
<p>This course is designed to support students who are having difficulty in the Registered Nursing Program. The course provides assessment of learning styles, tutoring services, group support, and content review to assist students who are having difficulty meeting increasingly complex course objectives. This course may be repeated three times.</p> <p>Limitation Request on Enrollment: Enrollment in this course is by departmental assessment. Admission to the RN program.</p>		

NURSING

NURSING GENERAL MATHEMATICS 3 UNITS
321 RELATED TO NURSING
Hours: 3 Lecture/Discussion
6 Homework

This course focuses on the development of mathematical and analytical skills related to the delivery of drugs and solutions by registered nurses. Basic arithmetic skills are reviewed and built upon. The student taking this course will be prepared for math calculations required in nursing school.

NURSING INTRAVENOUS 1 UNIT
333 THERAPY CERTIFICATION CLASS
Hours: SHORT TERM CLASS (A total of 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. It includes theory, laboratory practice, and supervised clinical practice in IV therapy techniques.

Prerequisite: Must be a licensed Vocational Nurse employed in an agency with an Inservice Education Department.

NURSING CERTIFIED NURSING ASSISTANT 6 UNIT
351
Hours: SHORT TERM CLASS (A total 184 Hours)
72 Lecture/Discussion
112 Lab

This course is designed to prepare the student as an entry level worker, providing basic nursing care to patients in acute care and long term care settings. The curriculum is structured to provide theory and application in skills needed to function as a Nursing Assistant. Upon completion students will be eligible to take the state certification examination.

NURSING HOME HEALTH AIDE 2 UNITS
352
Hours: SHORT TERM CLASS: TOTAL HOURS 40
40 Lecture/Discussion

This course is designed to prepare Certified Nursing Assistants for certification as Home Health Aides by the State of California. The certification allows the home health aide to function as an entry-level worker on a health care team in a home health agency.

Prerequisite: This course is limited to individuals who have completed a Certified Nursing Assistant class approved by the State of California.

NURSING NURSING SKILLS LAB 0 UNITS
400a-d
Hours: 3 Lab

This course provides the student with an opportunity for additional directed learning and supervised laboratory time to develop and refine nursing clinical skills necessary to the safe clinical practice of professional nursing. The student will gain knowledge from instructor demonstration, video tapes and computers.

Limitation On Enrollment: Must be enrolled in the COS Registered Nursing Program.

NURSING NURSING AND OTHER HEALTH 0 UNITS
401 CAREERS FOR ETHNIC DIVERSITY
Hours: SHORT TERM CLASS (A total of 32 hours)
24 Lecture/Discussion
8 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.

NUTRITION/FOODS

NUTR/ NUTRITION 3 UNITS
FOOD 18
Hours: 3 Lecture/Discussion
6 Homework

Approved for Distance Learning

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.

CAN H EC 2.

Advisory on Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better or eligibility for ENGLISH 1 determined by COS Placement procedures.

NUTR/ FOODS 3 UNITS
FOOD 101
Hours: 2 Lecture/Discussion
3 Lab
4 Homework

Materials Fee: \$10.00

Nutrition/Foods 101 is an overview of the principles and practices of food science and technology including food safety, sanitation, ingredient properties, nutritive values, preservation methods, product evaluation and meal management. CAN H EC 8.

NUTR/ FOODS 2 UNITS
FOOD 102
Hours: 1 Lecture/Discussion
3 Lab

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.

NUTR/ PROFESSIONAL COOKING 1 3 UNITS
FOOD 105
Hours: 2 Lecture/Discussion
3 Lab
4 Homework

Material Fee: \$15.00.

This class is an introduction to the art of professional cooking. Topics covered include preparation of basic sauces and stocks, salads, soups, grains and breakfast items. The curriculum includes lecture, demonstration and hands-on experience.

NUTR/ PROFESSIONAL COOKING 2 3 UNITS
FOOD 106
Hours: 2 Lecture/Discussion
3 Lab
4 Homework

This class is designed so that performance standards meet employer expectations and enhance students' job market value. Students will demonstrate proficiency in food service skills, i.e., food presentation, sauces, meat cookery, baking and specialty cuisine.

Prerequisite: NUTR/FOOD 105 or equivalent college course with "C" or better.

NUTR/ SANITATION & SAFETY 2 UNIT
FOOD 107
Hours: 2 Lecture/Discussion
 Basic concepts of sanitation and safety and their application in the food service industry. Federal, state and local regulations.

Course Descriptions

NUTRITION/FOODS

NUTR/ FOOD 108	INTRO TO FOOD SERVICE MANAGEMENT	3 UNIT
Hours:	3 Lecture/Discussion 2 Activity	
<p>This class is designed to introduce students to general service management principles and provide knowledge and practice of those principles in a learning environment. Personnel supervision and training in food service will be covered. This class, with others in the certificated program, will prepare students for an introductory management position in a food service institution, restaurant, or hotel.</p> <p>Advisory On Recommended Preparation: NUTR/FOOD 18, 105, and 107 or equivalent college courses with "C" or better.</p>		
NUTR/ FOOD 109	FOOD SERVICE EXPERIENCE	1-4 UNITS
Hours:	5-20 Activity	
<p>This course is designed to give the student learning experiences in a functioning non-medical food service operation. The student, site manager and course instructor will design objectives for that site. Direct supervision at each site will be carried out by the site manager. The course instructor will visit the student at the site during the semester.</p> <p>Note: Verification of your last Tuberculin Skin Test must be on file with instructor before site visit occurs.</p> <p>Prerequisite:NUTR/FOOD 107 or equivalent college course with "C" or better.</p> <p>Advisory On Recommended Preparation: NUTR/FOOD 101 or 105, or equivalent college courses with "C" or better.</p> <p>Corequisite: NUTR/FOOD 210</p>		
NUTR/ FOOD 111	DIETETIC SERVICE SUPERVISOR WORK EXPERIENCE	2 UNITS
Hours:	10 Activity	
<p>This course is designed to give the student learning experiences in a health care facility. Students will be assigned to a health care facility by the instructor. The assigned facility may be outside the City of Visalia. The course instructor is a Registered Dietitian.</p> <p>Limitation on Enrollment: Verification of your last Tuberculin Skin Test must be on file with instructor before site visit occurs.</p> <p>Prerequisite: NUTR/FOOD 301, 302, 107 and 18 or equivalent college courses with "C" or better. NUTR/FOOD 101 or 105 or equivalent college courses with "C" or better or three years professional cooking experience.</p> <p>Advisory On Recommended Preparation: NUTR/FOOD 113 or equivalent college course with "C" or better.</p>		
NUTR/ FOOD 112	CHILDREN'S NUTRITION	3 UNITS
Hours:	3 Lecture/Discussion	
Cross Ref:	Child Dev 112	
<p>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. An appropriate course for students in education and social services.</p>		
NUTR/ FOOD 113	DIETETICS	3 UNITS
Hours:	3 Lecture/Discussion 6 Homework	
<p>This course is designed primarily for students planning careers in nutrition or food service for medical institutions. Nutritional care for the patient, resident or client is emphasized.</p> <p>Prerequisite: NUTR/FOOD 301, 302, and 18 or equivalent college course with "C" or better.</p> <p>Advisory on Recommended Preparation: NUTR/FOOD 105, 107 or equivalent college courses with "C" or better.</p>		
NUTR/ FOOD 119	NUTRITION FOR FITNESS, EXERCISE, AND SPORTS	3 UNITS
Hours:	3 Lecture/Discussion	
Cross Ref:	PE 119 H&W 119	
<p>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.</p>		

NUTRITION/FOODS

NUTR/ FOOD 199	TOPICS IN NUTRITION/FOODS	1-4 UNIT
Hours:	Variable	
<p>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.</p>		
NUTR/ FOOD 201	INTRODUCTION TO FOOD SERVICE & NUTRITION PROFESSIONS	1 UNITS
Hours:	Short Term Class 17.5 Total lecture hours 35 Homework hours	
<p>This course includes coverage of careers in the food service and nutrition areas, specific nutrient information and introduction to computers. The student will be required to observe a food service or nutrition professional at work outside of scheduled class meeting times.</p> <p>Advisory on Recommended Preparation: NUR/FOOD 18 or equivalent college course with "C" or better taken previously or concurrently.</p>		
NUTR/ FOOD 202	PROFESSIONALISM IN THE WORKPLACE	3 UNITS
Hours:	3 Lecture hours 6 Homeowrk hours	
<p>This course covers employment skills in the food service and nutrition area such as professional behavior, resumes and interviewing. Also covered are workplace issues, including sexual harassment, stress reduction and workplace violence.</p> <p>Prerequisite: NUR/FOOD 302 or equivalent college course with "C" or better.</p> <p>Advisory on Recommended Preparation: NUTR/FOOD 105, 201 or equivalent college course with "C" or better.</p>		
NUTR/ FOOD 207	SANITATION FOR FOOD HANDLERS	1 UNIT
Hours:	SHORT TERM CLASS: TOTAL HOURS: 51 17 Lecture hours 34 Homework hours	
<p>Basic concepts of food service sanitation are covered. This course prepares students to take the ServSafe examination, which is given at the end of the course. Passing the ServSafe examination meets California and Tulare/Kings Counties requirements for food safety certification.</p>		
NUTR/ FOOD 212	MENU DESIGN	3 UNIT
Hours:	SHORT TERM CLASS: TOTAL HOURS: 144 48 Lecture hours 96 Homeowrk hours	
<p>This course is an overview of menu planning for child nutrition programs. Topics will include menu planning options, nutrition standards, menu writing, student preferences, marketing and evaluation. Procedures for developing standardized products, budgetary controls and evaluating procurement and delivery systems, and meeting federal, state and local standards are covered.</p>		
NUTR/ FOOD 215	CHILD NUTRITION MANAGEMENT	3 UNIT
Hours:	3 Lecture hours 6 Homeowrk hours	
<p>Overview of the components of model child nutrition programs including the application of current child health and nutrition principles, nutrition education practices, marketing procedures, communication strategies and operation management skills. Management of nutritionally and fiscally sound child nutrition programs. Effective use of community and school partnerships.</p>		
NUTR/ FOOD 299	TOPICS IN NUTRITION/FOODS	1-4 UNIT
Hours:	Variable	
Material Fees:	Variable	
<p>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 non-transferable.</p>		

NUTRITION/FOODS

NUTR/ FOOD 301 **FOOD SERVICE & NUTRITION SKILLS I** **1 UNIT**
Hours: 17.5 Lecture hours
 35 Homework hours

Material Fees: Variable

This course provides a foundation in computation skills necessary for success in nutrition and food service courses and employment. Topics covered include recipe adjustment, measurement, costing, percent body weight and caloric need calculations.

NUTR/ FOOD 302 **FOOD SERVICE & NUTRITION SKILLS II** **1 UNIT**
Hours: 17.5 Lecture hours
 35 Homework hours

Material Fees: Variable

This course provides an introduction to verbal and written communication skills necessary for success in nutrition and food service courses and employment. Topics covered include recipe and term comprehension, verbal directions and memo and report writing.

NUTR/ FOOD 320 **HEALTHY COOKING ON A BUDGET** **1 UNIT**
Hours: **SHORT TERM CLASS**
 17 Lecture
 34 Homework

Cooking styles, techniques and strategies designed to promote optimal health and nutrition will be presented in several different ways.

NUTR/ FOOD 321 **PROVIDING GOOD FOOD AND NUTRITION FOR CHILDREN** **1 UNIT**
Hours: **SHORT TERM CLASS**
 17 Lecture
 34 Homework

This course explores and develops food experiences that can be incorporated into the learning environment for parents (or care-providers) and children. It includes safety, sanitation, basic recipe development, simple preparation techniques and general nutrition information.

ORNAMENTAL HORTICULTURE

OH 2 **PLANT IDENTIFICATION 1** **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab

Ornamental Horticulture 2 is a detailed study of trees, shrubs, vines, herbaceous plants, and their identification. This course emphasizes plant materials at their best during the summer and fall months.

OH 3 **PLANT IDENTIFICATION 2** **3 UNITS**
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.

OH 7 **LANDSCAPE DESIGN** **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab

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.

OH 101 **BASIC ORNAMENTAL HORTICULTURE** **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab

Materials Fee: \$5.00

This course is an introduction to ornamental horticulture and the basic skills used in the landscaping, turf management, and nursery fields.

ORNAMENTAL HORTICULTURE

OH 104 **NURSERY PRACTICES** **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab

Material Fee: \$5.00

A study of the nursery industry and its practice through lecture and lab activities. Instruction provides a working knowledge of plant propagation, growing ornamental plants, nursery layout, nursery management, cut flower care and marketing techniques.

OH 105 **PLANT PROPAGATION** **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab

Materials Fee: \$5.00

A plant science course that studies the principles of plant propagation by seed, cutting, layering, division, grafting, and budding. The primary focus of this course is the propagation of fruit and ornamental plants.

OH 106 **LANDSCAPE DRAFTING** **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab

Materials Fee: \$5.00

This course teaches the basic drafting techniques and standards used in creating landscape designs. Students learn landscape symbols, lettering styles and techniques as well as methods of designing landscape plans using section and detail drawings. Sketching and the use of drafting equipment from landscape and architectural fields are also stressed.

OH 107 **LANDSCAPE STRUCTURES** **3 UNITS**
Hours: 2 Lecture/Discussion
 3 Lab

Material Fee: \$5.00

This course emphasizes the fundamentals of construction as they relate to building garden structures (decks, fences, gazebos, planters, etc.), garden lighting, soil preparation, planting a landscape and plant protection. Also included is cost estimation and analysis.

OH 108 **LANDSCAPE CONSTRUCTION** **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab

Material Fee: \$5.00

A basic course in ornamental horticulture for transfer and two year horticulture majors that teaches the fundamentals of construction as they relate to landscape design and the maintenance of landscape plants.

OH 109 **LANDSCAPE MAINTENANCE** **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab

Material Fee: \$5.00

OH 109 is a lecture and lab course on the maintenance of landscape of homes, parks, schools, golf courses, plus street and highway plantings. The students study pruning, fertilization, irrigation, pest control and landscape management.

OH 110 **TURFGRASS MANAGEMENT** **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab

Material Fee: \$5.00

An introduction to the field of turfgrass management that includes selection and use of turfgrass varieties for use in parks, recreation areas, golf courses, and home lawns.

OH 111 **FLORAL DESIGN** **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab

Material Fee: \$50.00

OH 111 is an introductory lecture and lab course in commercial floristry that covers the various phases of floral design. It is a general course for a two-year certificate and transfer students and is not limited to agriculture majors.

Course Discriptions

ORNAMENTAL HORTICULTURE

- OH 112 SYMPATHY FLOWERS 3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
Materials Fee: \$50.00
 Ornamental Horticulture 112 is a course for two year and certificate students. It is a requirement for the floral industries certificate. OH 112 teaches the advanced styling and design of flowers specifically for sympathy work, casket sprays, wreaths, hospital arrangements and solid work.
- OH 113 WEDDING FLOWERS 3 UNITS**
Hours: 2 Lecture/Discussion
 2 Lab
Materials Fee: \$50.00
 Ornamental Horticulture 113 is a course for 2-year and certificate students. It is a requirement for the Floral Industries certificate. OH 113 teaches advanced styling of floral designs to wear and carry, as practiced specifically in wedding work, including complete coverage of wedding bouquets, corsages, church decorations, balloons and bouquet decor.
- OH 114 HORTICULTURE INDUSTRIES- SOUTHERN CALIFORNIA 1 UNIT**
Hours: SHORT TERM CLASS (A total of 40 hours)
 A field trip to Southern California ornamental horticulture outlets and the industries that supply them. Garden centers, flower shops, botanical and display gardens, flower and nursery growers, and public educational facilities are studied. Visits to wholesalers, jobbers, display houses advertising agencies and others working with retailers are included.
- OH 115 HORTICULTURE INDUSTRIES- NORTHERN CALIFORNIA 1 UNIT**
Hours: SHORT TERM CLASS (A total of 40 hours)
 This is a field trip/tour class visiting horticulture industries from Monterey to San Francisco counties. Included are garden centers, flower shops, botanical and display gardens, flower and nursery growers, and public educational facilities are studied. Visits to wholesalers, jobbers, display houses, advertising agencies and others working with retailers are included.
- OH 116 HORTICULTURE INDUSTRIES TOUR (Central California) 1 UNIT**
Hours: SHORT TERM CLASS (A total of 40 hours)
 A field trip to Central California ornamental horticulture outlets and the industries that supply them. Garden centers, flower shops, botanical and display gardens, flower and nursery growers, and public educational facilities are studied. Visits to wholesalers, jobbers, display houses, advertising agencies and others working with retailers are included.
- OH 117 SPRINKLER IRRIGATION 3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
 This course teaches the identification and recognition of components, installation, and assembly of various irrigation systems. It is a highly recommended course for two-year and transfer students. It is also a requirement for the Landscape Management Certification program. This course would also be appropriate for any industry personnel or homeowner interested in landscape irrigation.
- OH 118 XERISCAPE 3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
Material Fee: \$5.00
 A study and application of the principles and theories of landscape planning, designing, installation and maintenance of wise use water management in large and small scale landscapes.
- OH 119 INTERIORSCAPES 3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
Material Fee: \$5.00
 A study of the principals of residential and commercial interior design relating to plant materials for aesthetic purposes, is the main focus of this class. Foliage, plant selection, health and maintenance is studied.

ORNAMENTAL HORTICULTURE

- OH 120 DISEASES OF ORNAMENTALS 3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
 A diagnosis, analysis and management of plant diseases. Principles of controlling pests including biological, cultural, physical, mechanical, and chemical. Pesticide safety, formulation, and methods of application are presented. This course is an integral part of the Ornamental Horticulture program intended for two-year or transfer students and preparing for Pest Control Advisor's license.
- OH 121 PLANT COMBINATION THEORY 3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
 A study and application of the theory and principles of combining plant materials for use in the landscape according to their cultural, aesthetic and special environmental and micro-climate requirements.
- OH 122 PESTS OF ORNAMENTALS 3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
 This course teaches the elements of diagnosis, analysis and management of plant pests. Principles of controlling pests including biological, cultural, physical, mechanical, and chemical are discussed. Pesticide safety, formulation, and methods of application are also presented. This course is an integral part of the Ornamental Horticulture and Pest Management Programs, intended for two-year or transfer students and those preparing for Pest Control Advisor's license.
- OH 123 SILK & DRIED FLORAL DESIGN 3 UNITS**
Hours: 2 Lecture/Discussion
 3 Lab
 This is a required course for the Floral Design certificate that includes designs with non-living, semi-permanent materials. Tools, materials, care, basic techniques, and design styles and techniques in both dried and silk arrangements are studied. Growing, drying, and preserving cultivated and wild flowers, pods, and grasses is also included.
- OH 124 ARBORICULTURE: THE STUDY OF TREES 3 UNITS**
Hours: 2 Lecture/Discussion
 3 Lab
 4 Homework
 This course identifies the basic tree anatomy and functions as a living system. This knowledge will be applied to proper tree care including pruning situations, watering techniques, fertilizers, pre- and post- planting care, environmental/climatic conditions, disease and pests, etc. Included in this course is basic forensics (dissecting) of trees to determine age, injuries, rot, etc.
- OH 128 ADVANCED FLORAL DESIGN 3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
 This course is an advanced lecture/lab course in floral design, commercial flower shop operations and advanced skills in floral design.
Advisory on Recommended Preparation: OH 111 with a "C" or better.
- OH 129 HORTICULTURE & FLORAL BUSINESS MANAGEMENT 3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
 3 Homework
 This course covers skills necessary to successfully manage horticulture and floriculture related businesses. Management topics include going into business, location, pricing, finance planning, advertising, personnel management, as well as merchandising strategy.
Prerequisite: OH 101 or an equivalent college course with "C" or better.
- OH 201a-d VEGETABLE GARDENING 2 UNITS**
Hours: 1 Lecture/Discussion
 3 Lab
Materials Fee: \$10.00
 OH 201 is an introductory course in small scale vegetable production. The students study plant selection, soils, fertilizers, and care, as well as methods of planting irrigation and harvesting. This course is of great value to anyone who desires to learn proper techniques of vegetable gardening.

PARALEGAL

- PARA 101 INTRODUCTION TO PARALEGALISM 3 UNITS**
Hours: 3 Lecture/Discussion
6 Homework hours
 This initial course in the Paralegal program is designed to give the student an overview of the American legal system and introduce the student to legal careers, the role of the paralegal in a law office, legal ethics, basic legal analysis, and the law library.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures; and concurrent enrollment in PARA 102.
- PARA 102 LEGAL TERMINOLOGY 1 UNIT**
Hours: 1 Lecture/Discussion
2 Homework
 This course, required for the paralegal major, provides an overview of general theories of the law and legal terminology.
Advisory On Recommended Preparation: Concurrent enrollment in PARA 101.
- PARA 103 CIVIL PROCEDURE I 4 UNITS**
Hours: 4 Lecture/Discussion
8 Homework
Material Fee: \$10.00
 This course, required for the paralegal major, familiarizes the student with both California and federal concepts of civil procedure. Students learn to analyze hypothetical fact patterns and complete legal documents necessary for a civil lawsuit using computerized Judicial Council forms and other legal software.
Corequisite: PARA 101 unless previously completed with "C" or better, and/or equivalent college course with a "C" or better, or equivalent skills and knowledge as determined by departmental assessment.
Advisory on Recommended Preparation: COMPUTER 130 or COMPUTER 5 or equivalent college course with a "C" or better.
- PARA 104 CIVIL PROCEDURE II 3 UNITS**
Hours: 3 Lecture/Discussion
6 Homework
 This course expands upon the basic concepts learned in PARA 103 and is required for the paralegal major. Students draft complicated civil pleadings, discovery devices, writs and the legal documents necessary to enforce a money judgment.
Prerequisites: PARA 103 or equivalent college courses with "C" or better.
- PARA 105 LEGAL RESEARCH AND WRITING 4 UNITS**
Hours: 4 Lecture/Discussion
8 Homework
 This required course for the paralegal major covers the basic tools of researching both Federal and California law. Students analyze hypothetical cases, locate relevant legal authority, and evaluate arguments in support of specific positions. Students utilize both printed and computerized sources to write legal memoranda and points and authorities.
Corequisite: PARA 101 unless previously completed with a "C" or better, or equivalent college courses with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.
Advisory on Recommended Preparation: ENGLISH 1 or equivalent college course with a "C" or better.
- PARA 110 LEGAL ETHICS, MANAGEMENT & INTERVIEWING 3 UNITS**
Hours: 3 Lecture/Discussion
6 Homework
 This course, required for the paralegal major and other law office career certificates, is designed to assist the student in making the transition from the classroom to the law office. The course covers ethical principles, job search skills, client interviewing and law office management skills.
- PARA 160 CRIMINAL LAW TERMS IN SPANISH 1 UNIT**
Hours: 1 Lecture/Discussion
Cross Ref: Spanish 160 and AJ 160
 This elective course presents the Spanish language equivalents to American legal terminology used in the criminal justice system. It is recommended for court interpreters, paralegals, administration of justice majors and people working in law enforcement.
Advisory On Recommended Preparation: SPANISH 2 or equivalent college course with "C" or better, or 2 years of high school Spanish with "C" or better, or equivalent bilingual background.

PARALEGAL

- PARA 206 ADVANCES IN LEGAL RESEARCH 3 UNITS**
Hours: 3 Lecture/Discussion
6 Homework
 This elective course in the paralegal major emphasizes advanced computerized legal research methods and the writing of complex legal documents. It is designed for both the paralegal student with advanced skills as well as the paralegal professional seeking continuing education.
Advisory on Recommended Preparation: PARA 105 or equivalent college course with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.
- PARA 232 WILLS, TRUSTS, AND ELDER LAW 2 UNITS**
Hours: 2 Lecture/Discussion
4 Homework
 This is an elective course in the paralegal major designed to familiarize the student with the legal aspects of wills, trusts, conservatorships, and elder law. Included is the effect of death upon property ownership, community property and the drafting of forms associated with estate planning.
Corequisite: PARA 101 unless previously completed with a "C" or better, or equivalent college courses with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.
Advisory on Recommended Preparation: PARA 103 or equivalent college course with a "C" or better.
- PARA 233 PROBATE PROCEDURES 2 UNITS**
Hours: 2 Lecture/Discussion
4 Homework
 This is an elective course in the paralegal major designed to familiarize the student with the procedures for probating an estate and settling non-probate estates.
Corequisite: PARA 101 unless previously completed with a "C" or better, or equivalent college courses with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.
Advisory on Recommended Preparation: PARA 103 or equivalent college course with a "C" or better.
- PARA 235 BANKRUPTCY 1 UNIT**
Hours: 1 Lecture/Discussion
2 Homework
 This is an elective course in the Paralegal Program which provides general knowledge of the types of bankruptcy, jurisdiction, bankruptcy court procedures, duties of bankrupts and trustees, and adversary proceedings. (Formerly PARA 135)
Prerequisites: PARA 101 or equivalent college course with "C" or better or equivalent skills and knowledge as determined by departmental assessment.
- PARA 236 ADMINISTRATIVE LAW 3 UNITS**
Hours: 3 Lecture/Discussion
6 Homework
 This elective course in the paralegal major provides an overview of federal and state substantive and procedural administrative law. Students may elect to focus on immigration law, social security law, worker's compensation law or other specific government agencies.
Corequisite: PARA 101 unless previously completed with a "C" or better, and/or equivalent college course with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.
Advisory on Recommended Preparation: PARA 103 or equivalent college course with a "C" or better.
- PARA 237 FAMILY LAW 3 UNITS**
Hours: 3 Lecture/Discussion
6 Homework
 This is a required course in the paralegal major designed to familiarize the student with California law relating to adoption, annulment, dissolutions of marriage, paternity, and community property. Students will assemble a notebook of sample documents based on a hypothetical family law case.
Corequisite: PARA 101 unless previously completed with a "C" or better, or equivalent college courses with "C" or better, or equivalent skills and knowledge as determined by departmental assessment.
Advisory on Recommended Preparation: PARA 103 or equivalent college course with a "C" or better.

Course Descriptions

PARALEGAL

- PARA 240 FAMILY SUPPORT OFFICER TRAINING 4 UNIT**
Hours: 4 Lecture/Discussion
8 Homework
This is a required course for the Family Support Officer Certificate introducing students to the law, procedures, and computer software used by County District Attorneys' Offices, Family Support Divisions, to establish and enforce child support orders.
- PARA 301 PRACTICAL LAW 2 UNITS**
Hours: 2 Lecture/Discussion
Cross Ref: AJ 301
This basic skills class enhances study skills and basic competencies in math, reading, oral communication and written communication in a legal content course. This class is meant to supplement the skills learned in other precollegiate courses. It is recommended for students interested in pursuing a law related career but not yet ready for degree applicable courses.
- PARA 360 APPLIED MATH FOR LEGAL CAREERS 3 UNITS**
Hours: 3 Lecture/Discussion
6 Homework
Cross Ref: AJ 360
This non-degree applicable math course designed to improve students' math skills in a legal career contextual setting. Students will improve their practical problem-solving skills covering topics covered by the COS Math Competency Test.

PHILOSOPHY

- PHILOS 1 INTRODUCTION TO PHILOSOPHY 3 UNITS**
Hours: 3 Lecture/Discussion
Inquiry into the classical questions of philosophy such as: Who am I? What is real? What can I know? What is right? Toward what goals should a society strive? Philosophical views of metaphysics, epistemology, religion, political philosophy, aesthetics and ethics are considered through the writings of philosophers. CAN PHIL 2.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.
- PHILOS 5 ETHICS 3 UNITS**
Hours: 3 Lecture/Discussion
A study of modern day individual and societal moral choices. Issues will be examined to form strong moral arguments on contemporary topics, such as abortion, war, poverty, human rights, business, and friendships. Traditional philosophical theories will be examined including Kantianism, Utilitarianism, Egoism, and Relativism. CAN PHIL 4.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.
- PHILOS 10 DEVELOPMENT OF WESTERN PHILOSOPHY 1 3 UNITS**
Hours: 3 Lecture/Discussion
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. CAN PHIL 8.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.
- PHILOS 10H DEVELOPMENT OF WESTERN PHILOSOPHY 1-HONORS 4 UNITS**
Hours: 4 Lecture/Discussion
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. Special emphasis in the colloquium is on development of questions to lead discussions in a larger class.
Advisory On Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.
Limitation On Enrollment: Acceptance into the Honors Program.

PHILOSOPHY

- PHILOS 11 DEVELOPMENT OF WESTERN PHILOSOPHY 2 3 UNITS**
Hours: 3 Lecture/Discussion
The origins of modern philosophy is considered, including humanism, rationalism, utilitarianism, empiricism, idealism, positivism, pragmatism, Marxism, and existentialism and the contributions of philosophers. CAN PHIL 10.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.
- PHILOS 11H DEVELOPMENT OF WESTERN PHILOSOPHY 2-HONORS 4 UNITS**
Hours: 4 Lecture/Discussion
The origins of modern philosophy is considered, including humanism, rationalism, utilitarianism, empiricism, idealism, positivism, pragmatism, Marxism, and existentialism. Special emphasis in the colloquium is on development of questions to lead discussions in a larger class.
Advisory On Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.
Limitation On Enrollment: Acceptance into the Honors Program.
- PHILOS 12 COMPARATIVE RELIGION 3 UNITS**
Hours: 3 Lecture/ Discussion
A general survey of the major religions of the world (Hinduism, Jainism, Buddhism, Sikhism, Confucianism, Taoism, Shintoism, Zoroastrianism, Judaism, Christianity, and Islam). The emphasis is on a comparison of themes common to all, or most religions.
- PHILOS 13 INTRO TO THE OLD TESTAMENT 3 UNITS**
Hours: 3 Lecture/Discussion
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 UNITS**
Hours: 3 Lecture/Discussion
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 20 INTRODUCTORY LOGIC 3 UNITS**
Hours: 3 Lecture/Discussion
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. CAN PHIL 6.
Advisory On Recommended Preparation: ENGLISH 1 or MATH 230 or equivalent college course with "C" or better, or eligibility for MATH 21, 45, 61, 70, 75 or 154 as determined by COS Placement Procedures.
- PHILOS 25 CRITICAL THINKING 3 UNITS**
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 deduction, induction, fallacy identification, cultural bias, and argument analysis. A series of writing assignments will focus on increasing the sophistication of argumentative writing. Students are required to write 6,000 to 8,000 words demonstrating both skills of critical thinking and composition.
Prerequisite: ENGLISH 1 or equivalent college course with "C" or better.

PHOTOGRAPHY

PHOTO 1 BEGINNING PHOTOGRAPHY 3 UNITS

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

Material 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.

PHOTO 2a-d ADVANCED PHOTOGRAPHY LABORATORY 1 UNIT

Hours: 3 Lab

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.

Advisory On Recommended Preparation: PHOTO 1 or equivalent college course with "C" or better.

PHOTO 110a-d PHOTO JOURNALISM 3 UNITS

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

Cross Ref: JOURN 110a-d.

Materials Fee: \$20.00

A course designed for students who would like practical publication experience and an opportunity to publish their photographs in the school newspaper.

PHOTO 370a-d COLOR PHOTOGRAPHY 2 UNITS

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

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.

Advisory On Recommended Preparation: PHOTO 1 or equivalent college course with "C" or better.

PHOTO 371a-d PORTRAIT PHOTOGRAPHY 2 UNITS

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

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 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.

Advisory On Recommended Preparation: PHOTO 1 or PHOTO 370a or equivalent college course with a "C" or better.

PHYSICAL EDUCATION

Adaptive PE

P.E. 52a-d ADAPTED P.E. - ADAPTED WEIGHT TRAINING 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 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.

Limitation On Enrollment: Any physical limitation.

P.E. 55 a-d ADAPTED P.E. - SEASONAL SPORTS FOR THE DISABLED 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 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, strategies, etiquette, safety procedures, use of equipment and terminology needed are covered each semester. Trained assistants are available. Repeatable four times.

Limitation On Enrollment: Any physical limitation.

P.E. 57a-d ADAPTED P.E. - PHYSICAL FITNESS AND FLEXIBILITY 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 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.

Limitation On Enrollment: Any physical limitation.

P.E. 63a-d ADAPTED P.E. - BALANCE, RHYTHM, & AEROBIC DANCE MOVEMENT FOR THE ATYPICAL INDIVIDUAL 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This course is designed to help develop balance, rhythm, and aerobic dance movement skills in the disabled student. Students will participate in various forms of dance, including social, folk, and aerobic dance forms. Trained assistants are available. Repeatable four times.

Limitation On Enrollment: Any physical limitation.

P.E. 64a-d ADAPTED P.E. - PERCEPTUAL MOTOR SKILLS AND GAIT EXERCISES FOR THE DISABLED 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This course for the disabled is designed to assist students in the development of ambulation, balance, gross motor, and perceptual motor skills. Individual programming for each student's needs is provided. Trained assistants are available. Repeatable four times.

Limitation On Enrollment: Any physical limitation.

P.E. 66a-d ADAPTED P.E. - ARTHRITIS SELF-MANAGEMENT AND EXERCISE PROGRAM 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This course is a tested self-management and exercise program designed to help individuals cope with the various challenges caused by arthritis. Trained assistants are available. Repeatable four times.

Limitation On Enrollment: Any physical limitation.

PHYSICAL EDUCATION

Adaptive PE

P.E. 67a-d ADAPTED P.E. - PRINCIPLES AND TECHNIQUES (BODY MECHANICS) OF BACK CARE 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This course is designed for individuals with back disorders in developing an exercise program and better body mechanics to help better care for their backs. Repeatable four times.

Limitation On Enrollment: Any physical limitation.

P.E. 68a-d ADAPTED P.E. - ADAPTED SWIMMING AND WATER AEROBICS 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This is a one-unit course designed for the disabled. It is designed to assist students in developing basic swim skills and water survival skills, body development, and maintenance and/or conditioning through water exercises. Individual programming for each student's needs is provided. Trained assistants are available. Repeatable four times.

Limitation On Enrollment: Any physical limitation.

P.E. 70a-d ADAPTED P.E. - INTRODUCTION TO SPORTS FOR THE DISABLED STUDENT 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This one (1) unit course is designed to assist disabled students to participate in and learn about various indoor/outdoor sports adaptable to the disabled. This class will include open lab/practice, sports drills, and participation in various sports. Individual programming for each student's needs is provided. Trained assistants are available. The course may be repeated three (3) times.

Limitation On Enrollment: Course is designed for individuals with physical limitations.

P.E. 71a-d ADAPTED P.E. - GENERAL CONDITIONING FOR DISABLED STUDENTS 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This one (1) unit course is designed to provide the disabled with the opportunity to participate in a general conditioning program to develop fitness. Individual programming for each student's needs is provided. Trained assistants are available. This course may be repeated three (3) times.

Limitation On Enrollment: Course is designed for individuals with physical limitations.

P.E. 72a-d ADAPTED P.E. - AQUA-CISE FOR DISABLED STUDENTS 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This one (1) unit course is designed to assist disabled students to experience physical fitness through a comprehensive exercise program in the water. Designed for the disabled with no swimming skills. Individual programming for each student's needs is provided. Trained assistants are available. This course may be repeated three (3) times.

Limitation On Enrollment: Course is designed for individuals with physical limitations.

P.E. 173a-d ADAPTED P.E. - MODIFIED SPORTS AND GAMES FOR DISABLED STUDENTS 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This course is designed for disabled students to participate in and learn about a variety of sports and games. Students will learn basic rules, regulations, skills, strategies, and safety procedures that are fundamental to each sport and/or game. Trained assistants are available. This course may be repeated three (3) times.

Limitation On Enrollment: Course is designed for individuals with physical limitations.

PHYSICAL EDUCATION

Adaptive PE

P.E. 174a-d ADAPTED P.E. - CARDIOVASCULAR AND RESISTANCE TRAINING FOR DISABLED STUDENTS 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This course is designed to assist disabled students in developing and maintaining basic fine motor skills, gross motor skills, knowledge, body mechanics, flexibility, and attitudes necessary to participate in a lifetime fitness program. Individualized programming available for each student's needs. This course may be repeated three (3) times.

Limitation On Enrollment: Course is designed for individuals with physical limitations.

P.E. 175a-d ADAPTED P.E. - ADAPTED FITNESS AND BASIC STRETCHING TECHNIQUES 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This course is designed to help disabled students develop basic fitness skills and stretching techniques. Students will gain knowledge in this area and participate in many various forms of movement. Trained assistants are available. This course may be repeated three (3) times.

Limitation On Enrollment: Course is designed for individuals with physical limitations.

P.E. 176a-d ADAPTED P.E. - ADAPTED CROSS TRAINING 1 UNIT

**Hours: .5 Lecture/Discussion
2.5 Activity**

This course will help assist disabled students in structuring, developing, and maintaining body development. Students will gain knowledge in cross training and participate in various activities. Trained assistants are available. This course may be repeated three (3) times.

Limitation On Enrollment: Course is designed for individuals with physical limitations.

General Activities

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.

P. E. 2a-d NON-IMPACT AEROBICS 1 UNIT

**Hours: .5 Lecture
1.5 Activity**

Non-impact aerobics is designed specifically for the student who is interested in a fitness program. Aerobic 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. 3a-d WALKING/JOGGING FOR AEROBIC FITNESS 1 UNIT

**Hours: .5 Lecture/Discussion
1.5 Activity Per Week**

This course is designed for students who desire to improve their aerobic fitness and strength. Each student will demonstrate through walking or jogging how to develop fitness by exercise in the following: flexibility, cardiovascular fitness, proper walking/jogging techniques and strength training.

P.E. 4a-d WEIGHT TRAINING 1 UNIT

**Hours: .5 Lecture/Discussion
1.5 Activity**

This course is designed as a general introduction to the concepts of strength and body building. The course will focus on machines, barbells and dumbbells as the vehicle for development of the major muscle groups.

PHYSICAL EDUCATION

General Activities

P.E. 5a-b	ADVANCED STRENGTH AND BODY BUILDING PRINCIPLES	2 UNITS
Hours:	1 Lecture/Discussion 3 Activity Per Week	
<p>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.</p>		
P.E. 9a-d	CONDITIONING FOR TRACK AND FIELD	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>Conditioning for Track and Field is a one unit activity course designed to improve the individuals overall fitness through an understanding and application of the basic principles and techniques of track and field. This course may be repeated three times for credit.</p>		
P.E. 10a-d	FUNDAMENTALS OF BASEBALL	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>This course is designed for the students who wish to learn the fundamental skills of baseball. It will enable the student to communicate the proper fundamentals involved with throwing, fielding, pitching, and batting associated with baseball.</p>		
P.E. 11a-d	CIRCUIT/STEP AEROBICS	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity Per Week	
<p>Circuit/Step Aerobics is designed for students desiring to improve their cardiovascular strength as well as muscular strength in a low impact exercise. Each student will demonstrate, through Circuit/Step Aerobics, a working knowledge of correct form and alignment, cardiovascular strength, flexibility, and muscular strength.</p>		
P.E. 12a-d	ADVANCED BASEBALL	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>A physical education activity class for students who wish to gain advanced skills. Advanced skills in throwing, fielding, batting, and pitching a baseball will be taught and practiced.</p>		
P.E. 14a-d	BASKETBALL	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>This course is designed for any student interested in the sport of basketball; both experienced players and those not familiar with the game are encouraged to take this class. Basketball is an enjoyable sport and provides yet one more way a student can become physically fit through competition. This class is co-ed.</p>		
P.E. 15a-d	FUNDAMENTALS OF FOOTBALL	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>An activity class for students who wish to gain advanced football skills. The student will understand and develop advanced fundamentals of playing football, application of rules, and terms of the game of football.</p>		
P.E. 16a-d	CONDITIONING FOR FOOTBALL	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>The use of plyometric exercises and jump ropes to blend speed and strength training. This is a fitness program for students wishing to prepare for high-level competitive Intercollegiate football.</p>		
P.E. 17	THEORY OF FOOTBALL	2 UNITS
Hours:	2 Lecture/Discussion	
<p>This course is designed for the student with an interest in coaching football. Philosophy fundamentals, strategies and rules will be emphasized.</p>		

PHYSICAL EDUCATION

General Activities

P.E. 18a-b	BEGINNING GOLF	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>A physical education activity class in golf fundamentals. Focus is on understanding the basic fundamentals of playing golf, learning rules and terms of the game.</p>		
P.E. 19a-b	ADVANCED GOLF	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>A physical education activity class for students who wish to gain advanced golf skills. The student will understand and develop advanced fundamentals of playing golf, application of rules, and terms of the game of golf.</p>		
P.E. 21a-d	SOCCER	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>This course is designed for any student interested in the sport of soccer; both experienced players and those not familiar with the game are encouraged to take this class. Regulations for this game are thoroughly addressed. Soccer is an enjoyable sport and provides yet one more way a student can become physically fit through competition. This class is coed.</p>		
P.E. 22a-d	ADVANCED SOFTBALL	1 UNIT
Hours:	.5 Lecture/ Discussion 1.5 Activity	
<p>A physical education activity class for students to gain advanced softball skills. Advanced skills in throwing, fielding, batting and pitching a softball will be taught and practiced.</p>		
P. E. 23a-d	FUNDAMENTALS OF FAST PITCH SOFTBALL	1 UNIT
Hours:	.5 Lecture 1.5 Activity	
<p>This class is designed for the student who wants to learn the necessary skills required to play the game of fast-pitch softball. Elementary skills of throwing, field, batting and pitching will be taught and practiced.</p>		
P.E. 25a-d	BASIC SWIMMING	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>Basic Swimming is a general introduction to swimming and aquatics. It is an appropriate class for the beginning swimmer who wants to learn aquatic fundamentals and received swimming stroke instruction in from crawl, back crawl, elementary backstroke, sidestroke, breaststroke and butterfly.</p>		
P.E. 26a-d	SWIMMING FOR FITNESS	1 UNIT
Hours:	.5 Lecture/Discussion 1.5 Activity	
<p>Designed for the student who wishes to participate in the sport of swimming to increase/improve cardiovascular stress and muscular endurance. This course is directed to the student who is interested in lap swimming as a means of exercise.</p>		
P.E. 27	BASIC LIFEGUARDING	1 UNIT
Hours:	SHORT TERM CLASS (A total of 9 weeks) 2 Lecture/Discussion 2 Activity Per Week	
<p>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.</p>		
P.E. 28	WATER SAFETY INSTRUCTOR	2 UNITS
Hours:	2 Lecture/Discussion 2 Activity	
<p>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.)</p>		

Course Discriptions

PHYSICAL EDUCATION

General Activities

P.E. 30a-b BEGINNING TENNIS 1 UNIT
Hours: .5 Lecture/Discussion
1.5 Activity

Beginning Tennis is an activity course designed for the student who wishes to develop an understanding and appreciation for the game of tennis. Basic skills, strategies and rules will be covered.

P.E. 31a-b ADVANCED TENNIS 1 UNIT
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.

P.E. 33a-d CONDITIONING FOR TENNIS 1 UNIT
Hours: .5 Lecture/Discussion
1.5 Activity

Conditioning for Tennis is a activity course designed for improvement of a tennis player's skill through dynamic resistance exercises and aerobic training.

P.E. 34a-b BEGINNING VOLLEYBALL 1 UNIT
Hours: .5 Lecture/Discussion
1.5 Activity

Development of basic fundamental skills in volleyball through drills and play.

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.

P.E. 36 INTRODUCTION TO PHYSICAL EDUCATION 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

This course is designed to introduce the student to physical education. The course includes professional foundations of physical education, history, philosophy, concepts, careers, and the future of the discipline. It is presented in a format that will make it valuable to anyone thinking about entering the teaching profession.

P.E. 37 INTRODUCTION TO THEORY OF COACHING 2 UNITS
Hours: 2 Lecture/Discussion

Designed for the student wishing to gain knowledge of coaching individual and team sports. Common problems and solutions will also be covered.

P.E. 119 NUTRITION FOR FITNESS, 3 UNITS
Hours: 3 Lecture/Discussion
Cross Ref: Nutr/Food 119
H&W 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.

PE 121a-d PHYSICAL EDUCATION FOR THE EQUESTRIAN 1 UNIT
Hours: .5 Lecture/Discussion
1.5 Activity
1.0 Homework

Cross Listed: AN SCI 121a-d

A one unit activity course designed to improve the individual's overall fitness through an understanding and application of the basic principles and techniques of equitation. This course is repeatable three times.

PHYSICAL EDUCATION

General Activities

P.E. 142a-d VARSITY PERFORMANCE-PEP SQUAD/FLAG 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.

P.E. 188 PEAK PERFORMANCE 3 UNITS
Hours: 3 Lecture/Discussion
6 Homework

A course to examine peak performance as it relates to a variety of situations including, how to improve performance, effects of coaching styles on athletes' self-efficacy, how to attain compliance of athletes to their rehabilitation regiment, and how to prevent injuries from a psychological perspective.

P.E. 243 a-d CONDITIONING FOR PEP SQUAD 1 UNIT
Hours: 3 Activity

Conditioning for Varsity Performance (Pep Squad) 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.

P.E. 301a-d AQUA CALISTHENICS 1 UNIT
Hours: .5 Lecture/Discussion
1.5 Activity

Aqua Calisthenics 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. 495a-d FITNESS FOR SENIOR CITIZENS 0 UNITS
Hours: .5 Lecture/Discussion
1 Activity

This course is considered mild exercise and is basically designed for older people. The course consists of various stretching, bending, twisting and leaning from different positions while sitting in a chair.

PHYSICAL SCIENCE

PHYS SCI 12 INTRODUCTION TO PHYSICAL SCIENCE 3 UNITS
Hours: 3 Lecture/Discussion
2 Lab
6 Homework

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.

Advisory On Recommended Preparation:MATH 200, 205 or 215 or equivalent college course with "C" or better, or eligibility for MATH 230 as determined by COS Placement Procedures; and ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 as determined by COS Placement Procedures.

PHYS SCI 12H INTRODUCTION TO PHYSICAL SCIENCE-HONORS 3 UNITS
Hours: 3 Lecture/Discussion
2 Lab
6 Homework

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. Because this is a Honors course, the students will be asked to do more complex writing assignments and to work more independently. The overall level of rigor and pace will increase.

Prerequisite: MATH 200 , 205 or 215 or equivalent college course with "C" or better, or eligibility for MATH 230 as determined by COS Placement Procedures; and ENGLISH 1 or equivalent college course with "C" or better.

Limitation On Enrollment: Acceptance into the Honors Program.

PHYSICAL SCIENCE

PHYS SCI 20 PHYSICAL SCIENCE 3 UNIT
Hours: 3 Lecture/Discussion
 2 Lab

A laboratory course in physical science designed to meet the laboratory science requirement for transfer students who are not science majors. Topics include concepts, theories, and principles of physics, chemistry, astronomy and earth science. The course provides opportunities for students to learn reasoning skills and a new way of thinking about their environment. Course will present applications of concepts and theories to topics of current interest.

Advisory On Recommended Preparation: MATH 200, 205 or MATH 215 or equivalent college course with "C" or better, or eligibility for MATH 230 as determined by COS Placement Procedures; and ENGLISH 360 or equivalent college course with "C" or better, or eligibility for ENGLISH 251 determined by COS Placement Procedures.

PHYS SCI FUNDAMENTALS OF 3 UNITS
350 PHYSICAL SCIENCE
Hours: 3 Lecture/Discussion
 2 Lab

This class will introduce the student to the fundamental reasoning and methods used in the physical sciences. It is designed to help students develop the competence and confidence necessary for successful college study in both academic and vocational courses.

PHYSICS

PHYSICS 5 PHYSICS FOR 4 UNITS
SCIENTISTS AND ENGINEERS 1
Hours: 4 Lecture/Discussion
 2 Lab

This is the first semester of a three semester introductory calculus-based 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. CAN PHYS 8; CAN PHYS SEQ B includes PHYSICS 5, 6, and 7.

Prerequisites: MATH 75 or equivalent college course with "C" or better.

PHYSICS 6 PHYSICS FOR 4 UNITS
SCIENTISTS AND ENGINEERS 2
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. CAN PHYS SEQ B includes PHYSICS 5, 6, and 7.

Prerequisites: PHYSICS 5 or equivalent college course with "C" or better.

PHYSICS 7 PHYSICS FOR 4 UNITS
SCIENTISTS AND ENGINEERS 3
Hours: 4 Lecture/Discussion
 2 Lab

This is the third 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 electricity, magnetism, and optics. CAN PHYS SEQ B includes PHYSICS 5, 6, and 7.

Prerequisites: PHYSICS 6 or equivalent college course with "C" or better.

PHYSICS 20 GENERAL PHYSICS 1 4 UNITS
Hours: 4 Lecture/Discussion
 2 Lab

This is the first semester of a two-semester introductory non-calculus based physics course. This course includes laboratory experiments in addition to lectures. It is required for premedical, pre dental, pre pharmacy, and occasionally science and math students. Topics included are statics; kinematics, dynamics of particles and rigid bodies, simple harmonic motion, and thermal physics. CAN PHYS 2.

Prerequisites: MATH 154 or equivalent college course with "C" or better.

PHYSICS

PHYSICS 21 GENERAL PHYSICS 2 4 UNITS
Hours: 4 Lecture/Discussion
 2 Lab

This is the second semester of a two-semester introductory non-calculus based physics course. This course includes laboratory experiments in addition to lectures. It is required for premedical, pre dental, pre pharmacy, and occasionally science and math students. Topics included are: electricity and magnetism, optics, modern and nuclear physics. CAN PHYS 4.

Prerequisite: PHYSICS 20 or equivalent college course with "C" or better.

PHYSICS 100 INTRODUCTION TO PHYSICS 3 UNITS
Hours: 3 Lecture/Discussion

Introduction to the mathematical concepts and problem-solving techniques required for the study of Physics. Intended for Physics and Engineering majors. Does not satisfy General Education requirements.

Advisory on Recommended Preparation: MATH 70 or equivalent college course with "C" or better or eligibility for Math 61 or Math 75 as determined by COS Placement Procedures.

PLANT SCIENCE

PLNT SCI INTRODUCTION TO 3 UNITS
1 CROP SCIENCE
Hours: 3 Lecture/Discussion
 1 Lab

A general survey of crop production in California. This course includes an overview of crop area and uses, current economic and market conditions, plant taxonomy and classification, and basic botany. CAN AG 8.

PLNT SCI FRUIT AND NUT 3 UNITS
12 TREE PRODUCTION
Hours: 3 Lecture/Discussion
 1 Lab

An introductory course in California fruit and nut tree production. Basic cultural and management practice in nut, stone, and pome fruits are included in this course.

Advisory On Recommended Preparation: PLNT SCI 1 or equivalent college course with "C" or better.

PLNT SCI ROW CROPS 3 UNITS
102
Hours: 3 Lecture/Discussion
 1 Lab

The production principles and management practices for row crops including cotton, corn, and sugar beets in the San Joaquin Valley.

Advisory On Recommended Preparation: PLNT SCI 1 or equivalent college course with "C" or better.

PLNT SCI CEREALS AND OIL CROPS 3 UNITS
103
Hours: 3 Lecture/Discussion
 1 Lab

The production principles for small grains including sorghums and oilcrops in the San Joaquin Valley. Fundamental taxonomy, botany and cultural practices including tillage, planting, irrigation, pest control and harvesting are taught.

PLNT SCI FORAGE CROPS 3 UNITS
104
Hours: 3 Lecture/Discussion
 1 Lab

A study of the common forage crops: alfalfa, silages, permanent pastures, and natural ranges. Cultural practices to be studied will include: land preparation, irrigation needs, fertilization, seeding rates, methods of utilization, grazing silage or dry hay, and harvesting.

Course Discriptions

PLANT SCIENCE

PLNT SCI WEEDS AND WEED 3 UNITS
105 CONTROL
Hours: 3 Lecture/Discussion
1 Lab

This course covers identification, cultural, chemical, and biological control or prevention of the major weeds affecting crops and livestock in the Tulare-Kings counties area.

PLNT SCI CITRUS PRODUCTION 3 UNITS
111
Hours: 2 Lecture/Discussion
2 Lab

Economic importance of the citrus industry. Topics include: historical development, areas of production, environmental requirements and citrus climatology, citrus botany, commercial varieties and rootstocks. Critical evaluation and comparison of citrus regions around the world. Orchard planning and development, nursery practices, tree management, pest and disease control, irrigation and fertilization, pruning, harvesting, and marketing.

PLNT SCI GRAPE AND 3 UNITS
113 VINE PRODUCTION
Hours: 3 Lecture/Discussion
1 Lab

This course is a survey of the grape industry, grape varieties, and economics with a study of the cultural practices of table and wine grape production in California.

Advisory On Recommended Preparation: PLNT SCI 1 or equivalent college course with "C" or better.

POLITICAL SCIENCE

POLI SCI 5 FEDERAL, STATE, 3 UNITS
AND LOCAL GOVERNMENT
Hours: 3 Lecture/Discussion

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. CAN GOVT 2.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

POLI SCI 5H FEDERAL, STATE 4 UNITS
AND LOCAL GOVERNMENT-HONORS
Hours: 3 Lecture/Discussion
1 Honors Colloquium

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.

Advisory On Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.

Limitation On Enrollment: Acceptance into the Honors Program.

POLI SCI 7 MASS COMMUNICATIONS 3 UNITS
Hours: 3 Lecture/Discussion
Cross Ref: JOURN 7

A survey course covering all media of mass communications, newspapers, radio, television, magazines, book publishing, films, and the recording industry. Students will study strengths 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 JOURN 4

POLITICAL SCIENCE

POLI SCI 25 CONSTITUTIONAL LAW INTERPRETATION 3 UNITS
CIVIL LIBERTIES, FACT AND FALLACY
Hours: 3 Lecture/Discussion
Cross Ref: AJ 25
BUS 25

This course allows students to study and apply logic and critical thinking to written and oral communication through the study of the fundamental rights as protected by the United States Constitution. This course will develop an understanding of the role of the courts and key court cases interpreting individual rights. Students will develop the skills to analyze others' arguments, produce their own arguments and develop solutions to problems utilizing the case study method in legal research and analysis. Students will be required to write a total of 6,000 to 8,000 words.

Advisory On Recommended Preparation: ENGLISH 1 and SPEECH 1, or equivalent college course with a "C" or better.

PSYCHOLOGY

PSYCH 1 GENERAL PSYCHOLOGY 3 UNITS
Hours: 3 Lecture/Discussion

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

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

PSYCH 5 SOCIAL PSYCHOLOGY 3 UNITS
Hours: 3 Lecture/Discussion

A scientific exploration and application of the psychological basis of people's interactions with one another and the way thoughts, feelings and 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: PSYCH 1 or equivalent college course with "C" or better.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

PSYCH 10 HUMAN SEXUALITY 3 UNITS
Hours: 3 Lecture/Discussion

A comprehensive introduction to the biological, psychological and sociocultural aspects of human sexual behavior.

Prerequisites: PSYCH 1 or equivalent college course with "C" or better.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

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.

Prerequisite: PSYCH 1 or equivalent college course with "C" or better.

Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

PSYCH 39 CHILD DEVELOPMENT-DS1 3 UNITS
Hours: 3 Lecture/Discussion
Cross Ref: Child Dev 39

A study of the child that includes cognitive, physical, moral, social, emotional and language development using a chronological approach which covers prenatal through adolescent development. The course combines theory and practical application. It is required for the State Children's Center Permit and also valuable for students in education, social services, health and law enforcement. CAN HEC 14

Course Descriptions

PSYCHOLOGY

PSYCH CHILD DEVELOPMENT 1 UNIT
DEV 39M3 Middle Childhood & Adolescence (Modular Training)
Total Hours: 17.5 hours SHORT TERM CLASS
Cross Ref: CHLD DEV 39M3
THIS CLASS IS U.C. TRANSFERABLE ONLY IF ALL THREE MODULES ARE COMPLETED TO EQUAL PSYCH 39, 3 UNIT CLASS.
 This course (one of three PSYCH 39 modules required for the Child Development Certificate and for U.C. transfer) studies the development of humans from the middle school age years through adolescence-age six through age twenty two, in the areas of cognition, moral development, and social/emotional development. NOT open to students who have previously received credit in PSYCH 39.

PSYCH 130 INTRODUCTION TO BEHAVIOR MODIFICATION 3 UNITS
Hours: 3 Lecture/Discussion
 This semester course is designed for teachers, paraprofessionals, and those pursuing a career in psychology. Student will develop skills in assessing behavior change program. This course will combine both the theoretical and practical models for understanding human behavior.
Prerequisites: PSYCH 1 or equivalent college course with "C" or better.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

PSYCH 133 PERSONAL AND SOCIAL GROWTH 3 UNITS
Hours: 3 Lecture/Lab
 A practical survey of psychological principles which contribute to the individual's well being and his/her relationship with others. The main focus is on understanding the behavior and personality traits which most improve or interfere with realizing one's potential. Specific topics may include love, sex, emotions, shyness, values, and effective communication.

PSYCH 250 INTRODUCTION TO BASIC PSYCHOLOGY 3 UNITS
Hours: 3 Lecture/Discussion
 This course presents the principles and findings of psychology in a manner most relevant to application by the individual in daily life. Learning, motivation, emotions, and interpersonal relations are among the many topics examined. It is not intended for transfer to a university.

REAL ESTATE

REAL ES REAL ESTATE PRINCIPLES 3 UNITS
140
Hours: 3 Lecture/Discussion
 A general survey of the Real Estate industry in California emphasizing basic real estate principles. Tracing of a typical real property transaction from beginning to completion. Real property ownership and investments 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.

REAL ES REAL ESTATE FINANCE 3 UNITS
141
Hours: 3 Lecture/Discussion
 This course covers the ways to finance real estate, provisions regarding real estate financing, and the various taxation aspects of real estate finance.
Advisory On Recommended Preparation: REAL ES 140 or equivalent college course with "C" or better.

REAL ESTATE

REAL ES REAL ESTATE LAW 3 UNITS
142
Hours: 3 Lecture/Discussion
 This course covers the practical applications of real estate law, utilizing illustrative cases and examples designed to help avoid legal difficulties arising from real estate transactions, instruments, zoning, and planning. This course is 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.
Advisory On Recommended Preparation: REAL ES 140 or equivalent college course with "C" or better.

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 effect 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.

REAL ES REAL ESTATE PRACTICE 3 UNITS
144
Hours: 3 Lecture/Discussion
 This course is a study of the day-to-day operations in real estate sales and brokerage activities. The course is designed to fill one of the requirements for Real Estate Broker and covers material specific to the State of California.
Advisory On Recommended Preparation: REAL ES 140 or equivalent college course with "C" or better.

REAL ES REAL ESTATE APPRAISAL 3 UNITS
145
Hours: 3 Lecture/Discussion
 This course is an introductory course in basic residential appraisal techniques emphasizing the cost, market and income approach. The student develops skills in residential appraising. This course is part of the course work necessary for the California Real Estate Broker's Examination.
Advisory On Recommended Preparation: REAL ES 140 or equivalent college course with "C" or better.

SOCIAL SCIENCE

SOC SCI AMERICA 3 UNITS
276
Hours: 3 Lecture/Discussion
 A course in which films and discussions emphasize the inter-relationship 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.

SIGN LANGUAGE STUDIES (See AMERICAN SIGN LANGUAGE)

Course Descriptions

SOCIOLOGY

- SOC 1 INTRODUCTION TO SOCIOLOGY 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. CAN SOC 2.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.
- SOC 2 THE SOCIOLOGY OF SOCIAL PROBLEMS 3 UNITS**
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 illness, gender inequality, sexual behavior, drugs and drug addiction, causes and distribution of crime, personal violence, urbanization, population dynamics, the environmental crisis, and the causes and consequences of warfare. CAN SOC 4.
Advisory On Recommended Preparation: ENGLISH 1 or equivalent college course with "C" or better.
- SOC 26 MARRIAGE AND FAMILY LIFE 3 UNITS**
Hours: 3 Lecture/Discussion
6 Homework
Cross Ref: CFSC 26
 This course covers the following topics in marriage and family: dating and mate-selection, communications and conflict resolution, dual career families, human sexuality, family planning, parenthood, divorce and remarriage, changing gender roles and family economics. CAN H EC 12.

SPANISH

- SPANISH 1 ELEMENTARY SPANISH 1 4 UNITS**
Hours: 4 Lecture/Discussion
 Spanish 1 is an introductory course in understanding, speaking, reading and writing Spanish. This course is designed for students who are transferring to four-year universities with foreign language requirements. It is also useful for students interested in bilingual education or any field which involves Spanish. CAN SPAN 2.
- SPANISH 2 ELEMENTARY SPANISH 2 4 UNITS**
Hours: 4 Lecture/Discussion
 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. CAN SPAN 4.
Prerequisites: SPANISH 1 or equivalent college course with "C" or better, or one year of high school Spanish with "C" or better, or equivalent skills as determined by department assessment.
- SPANISH 3 INTERMEDIATE SPANISH 4 UNITS**
Hours: 4 Lecture/Discussion
 Spanish 3 is an intermediate course in a four-course series. It teaches students to communicate on a sophisticated level, both orally and in writing. It builds on concepts learned in Spanish 1 and 2. It also improves student's reading ability and provides dialogue on cultural topics. CAN SPAN 8.
Prerequisites: SPANISH 2 or equivalent college course with "C" or better, or one year of high school Spanish with "C" or better, or equivalent skills as determined by department assessment.

SPANISH

- SPANISH 4 ADVANCED SPANISH 4 UNITS**
Hours: 4 Lecture/Discussion
 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. CAN SPAN 10.
Prerequisite: SPANISH 3 or equivalent college course with "C" or better, or three years of high school Spanish with "C" or better, or equivalent skills as determined by department assessment.
- SPANISH 12 HISPANIC LITERATURE 3 UNITS**
Hours: 3 Lecture/Discussion
 An interpretive analysis of Hispanic literature since the turn of the 20th Century. Through directed readings, discussions and writing, the students critique and analyze so as to interpret the prominent themes among Hispanic writers. This course analyzes the relationships between the genres which reflect the expression of Hispanic culture.
Prerequisites: SPANISH 4 or equivalent college course with "C" or better, or permission of department.
- SPANISH 22 SPANISH 2 FOR BILINGUAL STUDENTS 4 UNITS**
Hours: 4 Lecture/Discussion
 This course is designed to improve the written and oral communication skills of Spanish-speaking students. It is equivalent to Spanish 2, although more emphasis is placed on reading and writing for the native speaker.
Prerequisite: Student should have a bilingual background; and SPANISH 1 or equivalent college course with "C" or better, or one year of high school Spanish with "C" or better, or permission of department.
- SPANISH 23 SPANISH 3 FOR BILINGUAL STUDENTS 4 UNITS**
Hours: 4 Lecture/Discussion
 A continuation of Spanish 22. This course is for native speakers who wish to improve their written and oral communication skills. It is equivalent to Spanish 3.
Advisory on Recommended Preparation: SPANISH 22 or equivalent college course with "C" or better, or permission of the department.
- SPANISH 24 SPANISH 4 FOR BILINGUAL STUDENTS 4 UNITS**
Hours: 4 Lecture/Discussion
 A continuation of Spanish 23. This course is for native speakers who wish to improve their written and oral communication skills.
Advisory on Recommended Preparation: SPANISH 23 or equivalent college course with "C" or better, or permission of the department.
- SPANISH 160 CRIMINAL LAW TERMS IN SPANISH 1 UNIT**
Hours: 1 Lecture/Discussion
Cross Ref: PARA 160
 This elective course presents the Spanish language equivalents to American legal terminology used in the criminal justice system. It is recommended for court interpreters, paralegals, administration of justice majors and people working in law enforcement.
Advisory On Recommended Preparation: SPANISH 2 or equivalent college course with "C" or better, or 2 years of high school Spanish with "C" or better, or equivalent bilingual background.
- SPANISH 360a-b COURT INTERPRETING 3 UNITS**
Hours: 3 Lecture/Discussion
 Spanish language equivalents to American legal terminology is presented in an overview of procedures, common misdemeanors and common felonies. Familiarization with the Rules of Court and the role of the interpreter is covered as well as the implementation of the various techniques of interpreting within role playing.

SPECIAL TOPICS

SPEC SPECIAL TOPICS 199 1-4 UNITS
Hours: Variable
 Special topics are specialized studies or projects that are especially designed by instructors and students to enrich the learning experience in a discipline. Credits may be earned in 199 transfer level.

SPEC SPECIAL TOPICS 299 1-4 UNITS
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 3 UNITS
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.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

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.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

SPEECH 4 INTERPERSONAL COMMUNICATIONS 3 UNITS
Hours: 3 Lecture/Discussion
 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.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

SPEECH 5 ARGUMENTATION AND DEBATE 3 UNITS
Hours: 3 Lecture/Discussion
 Speech 5 is an introductory course in argumentation 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 fallacies in persuasive presentations. CAN SPCH 6.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures; and SPEECH 1 or equivalent college course with "C" or better.

SPEECH 7 PERSUASION 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework
 This course was designed to create an understanding of the constant persuasive messages that permeate modern life. While based deeply in persuasive theory, this course will also allow students to apply the material to personal and professional endeavors by direct application of the theory in the classroom and life.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

SPEECH

SPEECH 8 GROUP COMMUNICATION 3 UNITS
Hours: 3 Lecture/Discussion
 An introductory course 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. CAN SPECH 10.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

SPEECH 9 INTERCULTURAL COMMUNICATION 3 UNITS
Hours: 3 Lecture/Discussion
 6 Homework
 This course will provide the student with an understanding of the different cultures in our country by providing an insight into the communicative behaviors each culture possesses. A variety of cultures will be studied, with specific emphasis placed on the different skills in verbal and nonverbal communications, communication climates and language interpretation of those cultures.
Advisory On Recommended Preparation: ENGLISH 251 or equivalent college course with "C" or better, or eligibility for ENGLISH 1 determined by COS Placement Procedures.

SPEECH 301 BASIC FUNDAMENTALS OF COMMUNICATION 3 UNITS
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, oral interpretation, and interpersonal relationships. This course will help students prepare for all collegiate disciplines.

SPORTS MEDICINE

SMED 40 THE CARE AND PREVENTION OF ATHLETIC INJURIES 3 UNITS
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.

SMED 60 CONCEPTS IN HEALTH AND FITNESS 3 UNITS
Hours: 3 Lecture/Discussion
Cross Ref: H&W 60
 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.

SMED 70 SPORTS MEDICINE, FALL SPORTS 2 UNITS
Hours: 1 Lecture/Discussion
 4 Lab
 Exposure to immediate recognition and treatment of sports injuries unique to fall sports. Emphasis on rehabilitation and taping techniques to enable athletes to return to competition.
Advisory On Recommended Preparation: SMED 40 and HW 3 or equivalent college courses with "C" or better.

Course Discriptions

SPORTS MEDICINE

SMED 71 SPORTS MEDICINE, SPRING SPORTS **2 UNITS**
Hours: 1 Lecture/Discussion
 4 Lab
 The study and exposure to immediate recognition and treatment of sports injuries unique to spring sports. Emphasis will be placed on rehabilitation and taping techniques to aid in healing of the body and returning the athlete to competition.
Advisory On Recommended Preparation: SMED 40 and HW 3 or equivalent college courses with "C" or better.

SMED 72 ADVANCED SPORTS MEDICINE FALL SPORTS **2 UNITS**
Hours: 1 Lecture/Discussion
 4 Lab
 3 Homework
 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. This course is for those students who will transfer to a four-year college in Physical Education, Sports Medicine or related Health area.
Advisory On Recommended Preparation: SMED 40, 70 and HW 3 or equivalent college courses with "C" or better.

SMED 73 ADVANCED SPORTS MEDICINE SPRING SPORTS **2 UNITS**
Hours: 1 Lecture/Discussion
 4 Lab
 3 Homework
 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. This course is for those students who will transfer to a four-year college in Physical Education, Sports Medicine or related Health area.
Advisory On Recommended Preparation: SMED 40, 71 and HW 3 or equivalent college courses with "C" or better.

SMED 180a-d APPLICATION OF SPORTS MEDICINE PRINCIPLES **2 UNITS**
Hours: 8 Lab
 This course partially fulfills the requisites and requirements of the National Athletic Trainers Association Certification. Each candidate must present documentation of attaining at least 1,500 hours of athletic training experience under direct supervision of an NATA certified athletic trainer. Of these 1,500, at least 1,000 must be attained in a traditional athletic setting at the interscholastic, intercollegiate sports level. The course will give the opportunity to apply the principles of Athletic Training during practice and competition. Emphasis on pre-and post-practice and competition techniques and procedures. All student hours are supervised by the instructor during practices and competitive events.
Prerequisites: SMED 40 and H&W 3 or equivalent college courses with "C" or better.

SMED 280 POLICIES AND PROCEDURES OF SPORTS MEDICINE **2 UNITS**
Hours: SHORT TERM CLASS (Total hours: 96)
 32 Lecture/Discussion
 64 Homework
 This course will cover: policies and procedures, emergency protocols, vital signs, and daily functions that are necessary for the student to work in the athletic training room. Students will develop a plan using decision-making strategies, analysis, and an awareness of the factors related to medical protocols. Students may repeat this course three times.

SUPERVISED PRACTICE

190a-d SUPERVISED PRACTICE **1-3 UNITS**
Hours: 3-9 Lab
 Under the supervision of an instructor, selected students assist and direct students in less advanced classes. This course provides experience for students interested in teaching, counseling and other employment or volunteer situations where the student is expected to take a leadership role.
Prerequisite: Permission of the department.

THEATER ARTS

THR ART 1 INTRODUCTION TO THE THEATRE **3 UNITS**
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. CAN DRAM 18.

THR ART 2 FUNDAMENTALS OF ACTING I **3 UNITS**
Hours: 3 Lecture/Discussion
 1 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. CAN DRAM 8

THR ART 3 FUNDAMENTALS OF ACTING II **3 UNITS**
Hours: 3 Lecture/Discussion
 1 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.

THR ART 4 INTERMEDIATE ACTING I **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
 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.
Advisory On Recommended Preparation: THR ART 2 and 3 or equivalent college courses with "C" or better, or recommendation of department.

THR ART 5 INTERMEDIATE ACTING II **3 UNITS**
Hours: 3 Lecture/Discussion
 1 Lab
 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 plays of the late nineteenth century through the social dramas of the 1930's. Students may enroll in this course without having taken Theatre Arts 4.
Advisory On Recommended Preparation: THR ART 2 and 3 or equivalent college courses with "C" or better, or recommendation of department.

THEATER ARTS

THR ART 6 SHAKESPEARE 3 UNITS

**Hours: 3 Lecture/Discussion
6 Homework**

Theater Arts 6 is an introductory course that stresses student involvement with the literary and dramatic aspects of Shakespeare's works through the use of video, lecture, student reports, oral reports, and text analysis. It will also treat the playwright's life, times, sources, and influences on his work.

THR ART 7 ACTING SHAKESPEARE 3 UNITS

**Hours: 3 Lecture/Discussion
1 Lab
5 Homework**

This course is designed as an advanced level of study of Shakespearean acting proficiency and techniques. Class lecture, discussion, and scene work focus on text and character analysis, clarity of characterization, vocal and physical expressiveness and emotional release.

Prerequisite: THTR ARTS 2 or 3 or 4, **AND** THTR ARTS 6 or equivalent college courses with "C" or better.

THR ART 8 HISTORY OF THEATRE AND DRAMA 3 UNITS

**Hours: 3 Lecture/Discussion
6 Homework**

A survey of the history of theatre arts including literature, staging, style and practice emphasizing the relationship between theatre and its impact on and reflection of its cultural context within Western, Asian, South American and African cultures from prehistory to the 17th Century.

THR ART 9 HISTORY OF THEATRE AND DRAMA 3 UNITS

**Hours: 3 Lecture/Discussion
6 Homework**

A survey of the history of theatre arts including literature, staging, style and practice emphasizing the relationship between theatre and its impact on and reflection of its cultural context within Western, Asian, South American and African cultures from the 17th Century to the present.

THR ART 11a-d REHEARSAL AND PERFORMANCE 3 UNITS

**Hours: SHORT TERM CLASS (A total of 6 weeks)
15 Activity**

Rehearsal and performance in COS Summer Repertory Theater. This course provides study and exploration in all aspects of play production involving the actor and technician in order to develop acting capabilities and technical skills and disciplines. Productions will be presented for public performance. Enrollment is for the duration of the audition, preparation, and presentation phases of production. CAN DRAM 16--includes Thtr Art 11a only.

THR ART 12 a-b COSTUMING 3 UNITS

**Hours: 2 Lecture/Discussion
2 Lab
4 Activity**

Cross Ref: FASH 12a-b

A study of the principles and practice of costume construction from pattern to completed garments. Construction techniques, fabrics, basic patterns, wardrobe plotting, and historical styles. Additional hours required to work on crews for college productions.

THR ART 13a-b BEGINNING STAGECRAFT 3 UNITS

**Hours: 2 Lecture/Discussion
2 Lab
4 Activity**

A survey is made through lecture, demonstration and laboratory experience of all technical phases of scene production including construction, painting, rigging, placement, and manipulation of stage scenery and properties. Additional hours required for crew work on college production. CAN DRAM 12 (includes THTR ART 13a only)

THEATER ARTS

THR ART 14a-b INTERMEDIATE STAGECRAFT 3 UNITS

**Hours: 2 Lecture/Discussion
2 Lab
4 Activity**

This course is designed as an intermediate class for the student who has completed Theatre Arts 13a-b. The student will continue the study of Stagecraft by being assigned the added responsibilities of construction crew and production staff leadership. Individual design, construction, and organizational problems as well as scene shop and theatre maintenance techniques will be assigned. Additional hours required for crew work on college productions.

Advisory On Recommended Preparation: THR ART 13a or equivalent college course with "C" or better.

THR ART 15a-b BEGINNING STAGE LIGHTING 3 UNITS

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

This course introduces the student to the basic concepts of theatre lighting. Study includes the operation of stage lighting, the planning and rigging. Additional hours are required for crew work on college productions.

THR ART 16a-b INTERMEDIATE 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: THR ART 15a or equivalent college course with "C" or better.

THR ART 17a-b MAKEUP 3 UNITS

**Hours: 2 Lecture/Discussion
2 Lab
4 Activity**

Cross Ref: FASH 17a-b

This course is designed to introduce the student to the basic techniques and materials of theatrical makeup. Additional hours required to work on crews for college productions.

THR ART 18a-b ADVANCED THEATRE CRAFTS 3 UNITS

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

This course studies the function and application of design principles in the theatre crafts: stagecraft, stage lighting, costuming and makeup. Additional lab hours are required: work in leadership roles as production crew leaders on college Theatre Arts and Dance productions.

Advisory On Recommended Preparation: Recommendation by department.

THR ART 19a-d THEATRE WORKSHOP 1 SHORT TERM CLASS 2 UNITS

Hours: 120 hour course

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.

THR ART 20a-d MUSICAL THEATRE PERFORMANCE: THEATRE 2 UNITS

**Hours: 120 hour course
Cross Ref: Music 97a-d, Dance 41a-d**

Experience in drama and theatre through active participation in major musical and dramatic productions. Includes training and experience in all facets of the theatre.

Course Discriptions

THEATER ARTS

- THR THEATRE 2 UNITS**
ART 21a-d WORKSHOP 2
Hours: SHORT TERM CLASS (A total of 120 hours)
 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.
- THR ONE ACT PLAY PRODUCTION 2 UNITS**
ART 22a-d
Hours: 1 Lecture/Discussion
4 Lab
3 Homework
 This course is designed to introduce the student to the background, function and techniques of stage direction and play production leading to the staging of a one act play before an audience. The course may be repeated three times.
Advisory on Recommended Preparation: THTR ARTS 1 or equivalent college course with a "C" or better; THTR ARTS 2, 3, 4, or 5 or equivalent college course with a "C" or better; THTR ARTS 12, 13, or 15 or equivalent course with a "C" or better.
- THR STAGE MOVEMENT/STAGE COMBAT 2 UNITS**
ART 30a-b
Hours: 1 Lecture/Discussion
3 Lab
2 Homework
 This course is designed as an introduction of the function and the application of stage movement and stage combat as it applies to the actor and theatrical productions. It may be repeated once.
- THR MUSICAL THEATRE 3 UNITS**
ART 40a-b
Hours: 3 Lecture/Discussion
1 Lab
5 Homework
 This course is designed as an introduction to the fundamental skills and knowledge that musical theatre students must apply to performance situations. The course also examines musical theatre as an art form and studies its place in history as well as contemporary culture. This course may be repeated one time.
Advisory on recommended Preparation: MUSIC 30a and THTR ARTS 2 or equivalent college courses with "C" or better.
- THR AFRICAN-AMERICAN 3 UNITS**
ART 60 THEATER
Hours: 3 Lecture/Discussion
 This class is an interpretive survey of the history, impact and current direction of African-American Theatre. The contributions of African-American playwrights, actors and directors will be studied. Students analyze and present acting scenes in class.
- THR INTRODUCTION TO TV PRODUCTION 4 UNITS**
ART 101a-d
Hours: 3 Lecture/Discussion
1 Lab
2 Activity
6 Homework
 This course, which is an introduction to all aspects of television production, will combine lecture, studio experience at locations such as TV production sites, distance learning sites, and independent work. Specifically, it will cover producing, directing, camera work, graphics, editing and writing. Students will be required to submit a completed video tape which reflects their efforts in all aspects of the course as their final class project. This course may be repeated three times.

THEATER ARTS

- THR WORLD THEATRE AND DANCE 3 UNITS**
ART 120
Hours: SHORT TERM CLASS: (252 total hours)
36 Lecture/Discussion
216 Activity
Cross Ref: Dance 120a-d
(ADDITIONAL FEES REQUIRED)
 A critical analysis of the Performing Arts (Theatre, Dance, etc.) from an Audience perspective. Elements of play and dance production from the dramatic structure, style, and historical perspective of the script to the final presentation before an audience will be explored. Students will travel to London, New York City, or other sites to attend play and dance performances; backstage excursions, museums; for a two-week stay. Fee will cover roundtrip air fare, transfer to and from airport, hotel room, and some theatre tickets.
- THR MODELING 3 UNITS**
ART 170
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.
- THR COMMUNICATION STRATEGIES IN THE 2 UNITS**
ART 180a-d PERFORMING ARTS
Hours: 2 Lecture/Discussion
4 Homework
 This course is designed to offer students the opportunity to learn and exercise professional responsibility skills in the context of college-level theatre. Responsibilities may include: production analysis, theatre management, time management, conflict management, creating a video portfolio, as well as public communication relations strategies. This course may be repeated three times.
- THR ACTING FOR THE CAMERA 1 UNITS**
ART 202a-d
Hours: 9 Lecture/Discussion
24 Lab
18 Homework
 The course teaches On Camera Acting Techniques. It familiarizes the student with movement and performance in front of the camera (3/3 shot, close up, reversal, pan, walk in shot, two shot). The course is repeatable three times.
Advisory on Recommended Preparation: Some acting experience, either in college, high school or community theater.

WELDING

- WELDING BASIC METALCRAFT WELDING & 3 UNITS**
105a-c FORGING
Hours: 3 Lecture/Discussion
3 Lab
3 Homework
Cross Ref: ART 105a-c **Material Fees: \$15.00**
 Instruction for women and men in Metalcraft welding and forging techniques, basic tools for welded craft projects and sculpture, and construction of abstract shapes and finished sculptures. This course can be repeated two times.
- WELDING OXY-ACETYLENE WELDING 4 UNITS**
161
Hours: 3 Lecture/Discussion
3 Lab
6 Homework
 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.

WELDING

WELDING SHIELDED METAL ARC WELDING 4 UNITS
162
Hours: 3 Lecture/Discussion
 3 Lab
 6 Homework

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.

WELDING ADVANCED WELDING 1 4 UNITS
171
Hours: 3 Lecture/Discussion
 3 Lab
 6 Homework

This course is a continuation of the basic concepts of science as applied to welding and non-destructive testing. Theory of electricity, magnetism, atomic structure, and thermodynamis as used by technicians.

WELDING ADVANCED WELDING 2 4 UNITS
172
Hours: 3 Lecture/Discussion
 3 Lab
 6 Homework

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 metallurgy and destructive testing of welded materials.

WELDING STAINLESS STEEL WELDING, REPAIR AND FABRICATION 2 UNITS
173
Hours: SHORT TERM CLASS: TOTAL HOURS 96
 16 Lecture/Discussion
 32 Lab
 48 Homework

This course is designed to give advanced welding students training in the practice, theory, and skill of welding stainless steel. Both repair and fabrication as well as application to sanitary tube welding and fabrication will be covered.

WELDING BLUEPRINT READING AND FERROUS METALLURGY 3 UNITS
181
Hours: 3 Lecture/Discussion

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.

WELDING ALUMINUM WELDING 2 UNITS
274
Hours: SHORT TERM CLASS (Total hours: 99)
 36 Lecture/Discussion
 18 Lab
 45 Homework

This course is designed to give advanced welding students training in the practice, theory and skill in the welding of aluminum, both repair and fabrication, as well as application to all structural shapes and levels of alloys.

WELDING WELDING TOPICS 1-3 UNITS
364a-d
Hours: (8-24) Lecture
 (16-48) 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.

Prerequisites: Basic welding skills test will be administered by the department in accordance with the topics covered to qualify students in both safety procedures and shop rules.

WORK EXPERIENCE

WRK GENERAL WORK EXPERIENCE 1-3 UNITS
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.

WRK GENERAL WORK EXPERIENCE 1-3 UNITS
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 job skills/knowledge.

Prerequisite: WRK EXP 191 or equivalent college course with a passing grade.

WRK OCCUPATIONAL COOPERATIVE EDUCATION/INTERNSHIP 1-4 UNITS
EXP 193
Hours: 5-20 Lab per week

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.

WRK OCCUPATIONAL COOPERATIVE EDUCATION/INTERNSHIP 1-4 UNITS
EXP 194
Hours: 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.

Prerequisite: WRK EXP 193 or equivalent college course with a passing grade.

WRK OCCUPATIONAL COOPERATIVE EDUCATION/INTERNSHIP 1-4 UNITS
EXP 195
Hours: 5-20 Lab per week

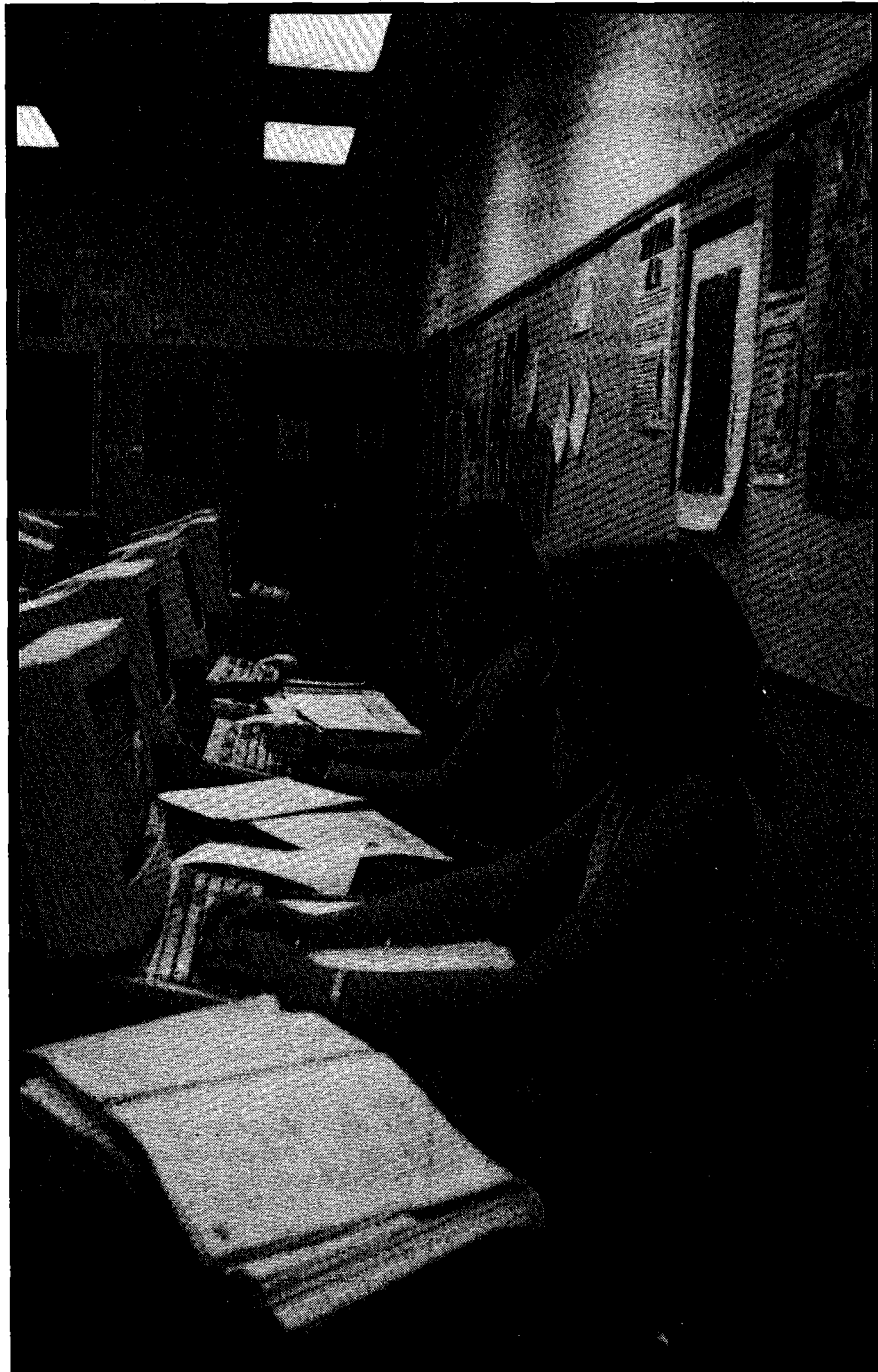
This third semester offering is designed for students who have opportunities to gain expanded learning beyond that experienced in Occupational Cooperative Education 193 and 194. The learning opportunities must be directly related to their college major or career goal. Students must receive permission of the Office of Cooperative Education.

Prerequisites: WRK EXP 194 or equivalent college course with a passing grade.

WRK OCCUPATIONAL COOPERATIVE EDUCATION/INTERNSHIP 1-4 UNITS
EXP 196
Hours: 5-20 Hours per week

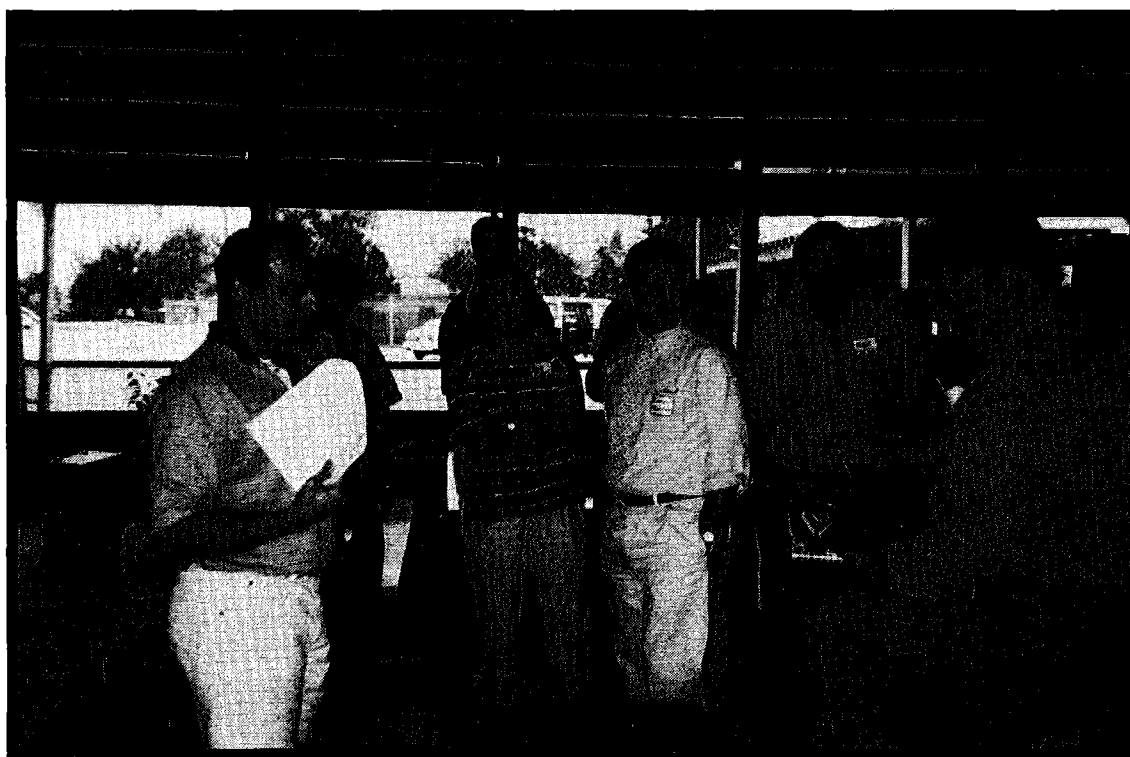
The fourth semester of Occupational Cooperative Work Experience Education is limited to those who are able to establish new/expanded Measurable Learning Objectives beyond those experienced in Occupational Cooperative Work Experience Education 193, 194, and 195 on a job related to their major or career goal. Students enrolling in this class must have the permission of the Coordinator of Cooperative Education or his designee.

Prerequisite: WRK EXP 195 or equivalent college course with a passing grade.



*Failure can be divided into those who thought and never did
and into those who did and never thought."*

Reverend W.A. Nance



*"A leader takes people where they want to go.
A great leader takes people where they don't necessarily
want to go, but ought to be."*

Rosalynn Carter

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CUSTODIAL MANAGER

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MAST, DON
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Work Experience

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Dorothea Trimble
Division of Science

Ron McGriff
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B.A., Harding University
M.A., Fresno Pacific University

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M.S., Western Maryland College

COMBS, LARAIN Y.**ENGLISH/MATHEMATICS**

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M.A., University of California, Los Angeles

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B.A., M.A., University of California, Riverside

DE CARO, LUCILLE**BUSINESS**

B.S., M.B.S., California State University, Bakersfield

DEFITCH, CHRISTINE L.**MATHEMATICS**

B.S., M.S. University of Pittsburgh

DE LAIN, CYNTHIA**NURSING**

B.S.N., Mt. Saint Mary's College, Los Angeles; M.S.N., Azusa Pacific University

DE SILVA, DAVID**AGRICULTURE**

B.S., M.S., California Polytechnic University, San Luis Obispo

DECKER, IRVING**HUMAN SERVICES**

B.S., Brigham Young University;
M.S.W., University of Utah

DOWNES, WILLARD M.**AGRICULTURE**

B.S., M.A., California Polytechnic University, San Luis Obispo

DRONEY, LA DONNA**NURSING**

B.S., Murray State University; M.S., Medical College of Georgia; M.A., University of San Francisco

DUARTE, RUDOLPHA.**ADMINISTRATION OF JUSTICE**

B.S., M.S., California State University, Long Beach

DUTTO, LAURENCE**AGRICULTURE**

B.A., M.A., California Polytechnic University, San Luis Obispo

EHRlich, VALERIE**ENGLISH**

B.A., M.Ed. Whitworth College

ENNS, CAROL**PHILOSOPHY**

B.A., University of California, Santa Cruz;
M.A., California State University, Dominguez Hills; M.A., California State University, San Francisco

FALCONER, JEFF**BUSINESS**

B.S., University of Oregon;
M.A., University of Denver

FALLER, PAMELA N.**PARALEGAL**

A.S., Porterville College; B.A., Chapman College; J.D., Western State University College of Law

FIRSTMAN, ARANGA**BIOLOGICAL SCIENCES**

B.S., M.S., California State Polytechnic University, Pomona; Ed.D., Nova University

FLORES, RICHARD**ART**

A.A., Pierce College; B.A., M.A., California State University, Northridge

FRANCISKOVICH, SUSAN**LINGUISTICS (ESL)**

B.A., M.A., California State University, Fresno

FREEBORN, NORMA**NURSING**

B.S., University of Rochester;
M.S., California State University, Los Angeles

GEHMAN, ROBERT**PSYCHOLOGY**

B.S., Pennsylvania State University;
M.A., Ohio State University

GENERA, SANDRA**CALWORKS/PUENTE COUNSELOR**

A.A., Ohlone College; B.A., U.C. Berkeley;
M.S., CSU, Hayward

GOEBEL, DENNIS**SPORTS MEDICINE**

A.A., Santa Barbara City College;
B.A., California State University, Fresno;
M.A., Azusa Pacific College

GONZALES, ROLANDO**ARCHITECTURE**

A.A., College of the Sequoias; B.A., Texas A&M; M.A., Arizona State University

GORLEY, PAUL D.**COUNSELING**

A.A., College of the Sequoias; B.A., California State University, Sacramento; M.A., California Polytechnic University, San Luis Obispo

GREENING, JOHNS.**BIOLOGICAL SCIENCES**

B.A., Pomona College;
M.A., San Jose State University

GREER, LISA**WORK EXPERIENCE**

A.A., College of the Sequoias;
M.S.W., B.A., California State University, Fresno

Faculty

GUADIANA, TERESA A.
COUNSELING
 B.A., M.Ed., University of Arizona

HANSEN, DEBRAR.
PSYCHOLOGY
 B.A., M.A., California State University, Fresno

HANSEN, ROBERT
BIOLOGICAL SCIENCES
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HARPER, VINETA
MATHEMATICS
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HARRIS, RICHARD
AGRICULTURE
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HARRIS, STEPHANIE
COUNSELOR
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HART, TIM
PARALEGAL/ADMINISTRATION OF JUSTICE
 B.A., San Jose State University; M.A., Washington State University; J.D., San Joaquin College of Law

HAYCOCK, GINA
LIBRARIAN
 B.A., University of California, Davis; M.L.S., San Jose State University

HESTER-REYES, MICHELE
SPANISH
 B.A., California State University, Fresno; M.A., New York University

HETHERINGTON, ERIC
GEOLOGY
 B.A., Franklin and Marshall College; Ph.D., University of Minnesota, Minneapolis

HOBSON, REBECCA
NUTRITION
 B.A., M.A., University of Wisconsin

HODGES, SANDRA
CONSUMER/FAMILY STUDIES
 A.A., College of the Sequoias; B.A., Century University; B.A., M.A., Pacific Oaks College

HOFER, EUGENER.
PHYSICAL EDUCATION
 B.A., California State University, Fresno; M.A., Northern Arizona University

HOUK, STEPHEN
**PHYSICAL SCIENCE/
 ENGINEERING/MATHEMATICS**
 B.S., University of Colorado; M.A., Stanford University; M.S., University of California, Davis

HOUSE, JUDY
JOURNALISM
 B.A., M.A., California State University, Fresno

HOWELL, DAVID
GEOGRAPHY
 A.A., Long Beach City College; B.A., California State University, Dominguez Hills; M.A., San Diego State University

HOWLAND, GARY E.
MATHEMATICS
 B.S., Northwestern State College; M.S., New Mexico Highlands University

HOWLAND, STEVEN
ENGLISH
 B.A., California State University, Fresno; M.A., Ohio University

HURTADO, ALEC
ENVIRONMENTAL CONTROL TECHNOLOGY
 A.A., College of the Sequoias

INOUE, YOSHINOBU
MATHEMATICS
 B.A., M.A., California State University, Fresno

JOHNSON, CYNTHIA
SPEECH
 B.A., M.A., California State University, Fresno

JONES, PAUL R.
SPEECH/THEATER ARTS
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JORDAN, JONI
ENGLISH
 B.A., California State University, Fresno; M.A., University of California, Irvine

KELLY, ROGER
PHYSICAL EDUCATION
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KENNEDY, LINDA
BUSINESS
 B.S., M.B.A., California State University, Fresno

KENNEDY, ROY
BUSINESS
 B.S., M.S., San Diego State University

KENT, CONSTANCE
ENGLISH
 B.A., San Jose State University; M.A., Columbia University

KING, SHERIDAN
COUNSELING
 B.A., Bennigton College; M.A., University of California, Santa Barbara

KITCHEL, N. PAULETTE
CHILD DEVELOPMENT
 A.A., Porterville College; B.A., California State University, Fresno; M.A., Fresno Pacific College

KNOX, CHRISTINA F.
PSYCHOLOGY
 B.A., University of the Pacific; M.S., California State University, Hayward

LAKE, CONNIE
ENGLISH
 B.A., M.A., East Tennessee State University

LAWTON, JACQUELINE
ENGLISH
 A.A., College of the Sequoias; B.A., M.A., University of California, Santa Barbara

LEWIS, KATHIE
LIBRARIAN
 B.A., Arizona State University; M.A., Brigham Young University

LILE, JANET
NURSING
 A.S.N., B.S.N., University of Tennessee; M.S.N., Vanderbilt University; Ph.D., Columbia Pacific University

LOYD, RAY
**ARCHITECTURE/
 DRAFTING TECHNOLOGY**
 A.A., College of the Sequoias; B.A., M.A., California State University, Fresno; Ph.D., Texas A&M University

LUKEHART, DENNIS
NURSING
 B.S.N., California State University, Dominguez Hills; B.S.N., Graceland College; B.A., Fresno Pacific; M.A., Chapman College

LUNDIN, KENT
COMPUTER APPLICATIONS
 B.S., M.B.A., Brigham Young, Provo, Utah

Faculty

LYNCH, TIMOTHY
MUSIC

B.A., M.A., California State University, Hayward; Ph.D., University of Iowa

MCCLURE, DARLEAN
BUSINESS

B.A., Arizona State University; M.A., California State University, Bakersfield

MCGEHEE, ROBIN
SPEECH

B.A., William Carey College; M.A., California State University, Fresno

MC GRIFF, RON
POLITICAL SCIENCE

A.A., Los Angeles Trade Technical College; B.S., University of the State of New York; M.A., California State University Dominguez Hills; Ph.D., Columbia Pacific University

MACHUCA, WAYNE
COMPUTER SCIENCE

A.S., B.S., Purdue University
M.B.A., Golden Gate University

MADDOX, GENE P.
ART

B.A., M.A., San Jose State University

MANCINI, JAMES
COUNSELOR

B.A., M.A., California State University, Fresno

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ENGLISH/HISTORY

B.A., M.A., California State University, Northridge; M.A., California State University, Fresno

MANNON, KIRBY
PHYSICAL EDUCATION

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MARINELLI, RENEE L. MIGUEL
BUSINESS

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MORLEY, DEBORAH
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MORLEY, DENNIS
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MORRIS, CAROL J.
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MORRISON, MILTON
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NATOLI, STEVEN
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B.S., Claremont McKenna College
M.A., Claremont Graduate School
M.A., California State University, Fullerton

NELSON, PAUL
ELECTRONICS

B.S., California State University, Fresno; M.S., University of Wyoming

OWENS, LAWRENCE
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OWENS, MILLICENT
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PALOS, LETICIA
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PARKER, CHARLES
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PELOVSKY, GERALD M.
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B.A., M.A., California State University, Fresno

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RECTOR, JOHN
BUILDING TRADES

B.A., M.S., California State University, Fresno

REDDEN, JOHN
MATHEMATICS

B.A., M.S., California State University, Northridge

REDDEN, TRACY
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REYNOLDS, BARBARA C.
CONSUMER/FAMILY STUDIES

A.A., Kings River College; B.S., Brigham Young University; M.Ed., Idaho State University

REYNOSO, SALLY A.
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RICO, DIANNA
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Faculty

ROBINSON, DAVID
ENGLISH

A.A., Grossmont College; B.A., San Diego State University, San Diego; M.A., University of California, Los Angeles

ROSE, DON
MATHEMATICS

B.S., M.S., California State University, Hayward

RUEGER, ROSS
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B.S., University of California, Riverside; M.A., University of California, Los Angeles

RUIZ, RON
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SADEH, SHIRIN
PHYSICS/MATHEMATICS

B.S., State University of New York; M.S., Syracuse University

SCHNEIDER, NANCY
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B.S., University of Colorado; M.A., Boston University

SEAWARD, JEFFERY
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SELLERS, JAMES
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B.A., M.A., California State University, Fresno; Ph.D., University of Southern California

SENSE, ED
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B.A., California State University, Bakersfield; M.A., California State University, Fresno

SHELLY, DANIEL
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B.A., M.A., California State University, Fresno

SHIRK, RICHARDE
BUILDING TRADES

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SOCIOLOGY

B.A., College of St. Benedict; M.A., California State University, Sacramento; M.S.W., California State University, Fresno

SMITH, ELAINE
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STAVA, SHERRY
NURSING

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STRAW, MARIE
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B.A., San Francisco College for Women; M.S., St. Louis University

STRONG, BARBARA
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TARKANIAN, GEORGE
ATHLETICS/PHYSICAL EDUCATION

B.A., University of San Diego; M.A., Claremont Graduate School; M.A., Azusa Pacific University

TEBEAU, FRANK
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TIDWELL, PAUL
ENGLISH

B.S., Humboldt State University

TOM, MARK
MATHEMATICS

B.A., California State University, Fresno; M.A., University of California, Santa Barbara

TRIMBLE, DOROTHEA
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TURK, MARVIN
COUNSELING

A.A., American River College; B.A., University of Montana; M.S., California State University, Sacramento

TURNER, GREG
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B.A., California State University, Fresno; M.F.A., University of California, Irvine

VIDALES, VERONICA
SPANISH

B.A., M.A., California State University, Fresno

WATTE, MARY A.
ENGLISH/FRENCH

B.A., University of California, Santa Barbara; M.A., California State University, Fresno

WEISE, THOMAS
SPEECH

A.A., Fresno City College; B.A., M.A., California State University, Fresno; Ed.D., University of California, Davis

WHEELER, NORA
MATHEMATICS

B.S., M.S., California State University, San Luis Obispo

WILLIAMS, ANNA
COUNSELING

B.S., University of San Francisco; M.A., California State University, Fresno

WILLIAMS, SCOTT
INDUSTRIAL ENGINEERING

B.S., California State University, Fresno

WINTERTON, JOHN A.
ELECTRONICS

A.S., College of the Sequoias; B.S., M.A., California State University, Fresno

WOODALL, JANET R.
NURSING

M.S.N., Consortium of the California State University at Long Beach

WOODBURY, GEORGE
MATHEMATICS

B.S., U.C. Santa Barbara; M.S., California State University, Northridge

WREN, HOWARD
COUNSELING

A.A., Sacramento City College; B.A., University of California, Davis; M.S., California State University, Sacramento

YAMAKAWA, LINDA
LIBRARIAN

A.A., Kings River College; B.A., M.A., San Jose State University

Emeritus Faculty

ANDERSON, VERNON A.
Sociology, 1957-1992

ANTHONY, BETTY
Home Economics, 1964-1989

BARBA, JOSEPH J.
English, 1962-1993

BARTON, JAMES
Mathematics, 1969-1992

BEARDEN, ALIA
Physical Education, 1957-1981

BENNETT, LES
Metals Technology, 1967-1988

BERG LEROY
Vice President, Evening College, 1962-1984

BETTENCOURT, BILL
Vice President, Academic
Services; Dean, Student Services
1967-1999

BRICKER, JOHN
History, 1956-1981

BRUNNER, ILA JUNE
Nursing
1975-1997

BROYLES, KEN
Automotive Technology,
1974-1993

BRYANT, ALTON
Biological Science, 1947-1968

BUYUKLIAN, HARRY
Fine Arts, 1977-1989

CABRERA, TONY
French, 1962-1977

CLEVELAND, WILLIAM R.
Physical Sciences, 1946-1979

COLE, JAMES
Psychology, 1968-1996

CONLEY, RICHARD
Work Experience/Business
1968-1996

COTTRELL, RICHARD
Architecture, 1960-1990

CRAIN, JOHN
Geology/Mathematics
1970-1997

CROOKSHANKS, IVAN
Superintendent/President,
1949-1984

DECKER, WILLIAM
English, 1965-1996

DUNN, GENE
Building Trades,

ENSIGN, PAT
Nursing, 1975-1983 and
1987-1991

ESSEX, WILFRID
Chemistry, 1955-1984

FERGUSON, ELIZABETH
English, 1949-1983

FISCHER, CURT
History/Anthropology, 1955-1984

FLAHERTY, MICHAEL
Vice President, Administrative Services;
Business, 1966-1990

FLATTLEY, MERLE
Physical Education, 1973-1991

FLY, JOHN
Building Trades, 1961-1984

FOTIAS, CRISTOS
Spanish, 1949-1983

FRIEDBERG, MARY NORA
Consumer/Family Studies,
1960-1993

GILCREST, THOMAS
Athletics/PE/Counseling,
1963-1996

GIVAN, CAROLYN
English/Counseling, 1959-1978

GODDARD, DON
Music
1990-1997

GRUMBLING, BETTY
English, 1970-1988

GRUMBLING, HENRY
Photography, 1962-1988

HALL, GERRY
Business, 1959-1982

HALL, LINCOLN H.
Superintendent/President; Vice President,
Instruction, 1957-1981
and 1984-1991

HALL, MARCY
Consumer/Family Studies,
1969-1993

HALL, ROBERT
English, 1963-1991

HAMILTON, DONNA
Early Childhood Education,
1977-1996

HAMILTON, RICHARD
English/Journalism, 1963-1990

HAMILTON, WILLIAM
Psychology, 1969-1996

HARNER, RUTH
Business, 1967-1992

HEATER, MARGARET ANN Librarian,
1975-1993

HETTICK, LARRIMORE
English, 1965-1996

HOFER, FAYRENE
Business, 1980-1996

HOMAN, RALPH
Art 1964-1997

HOLT, BERT
Physical Education, 1965-1988

HOWARD, KENYON
Physical Science, 1972-1984

HUDDLESTON, LAUNA
Business, 1966-1992

ISEBELL, NORM
Agriculture
1984-1997

JACKSON, SARAH
Nursing, 1981-1996

JACOBSEN, RICHARD
Vice President, Business Services, 1957-
1984

JENSEN, BRUCE
Agriculture, 1949-1984

JOHNSON, NOBLE
Theater Arts, 1962-2000

JUSTUS, LOIS
Nursing, 1970-1993

Emeritus Faculty

KILER, FRANK
Metals Technology, 1948-1974

JOHNSON, NANCY
Nursing, 1973-1996

KLEINFELTER, DALE
Chemistry, 1963-1990

KRUMDICK, VICTOR
Health/P.E./Athletics, 1963-1996

LANG, ANNIE
Mathematics, 1969-1977

LAWHORN, FRANK
Agriculture, 1957-1983

LEWIS, REX
Business, 1960-1993

MC CORMICK-MIRANDA, ANNE
Home Economics, 1966-1984

MARCELLUS, ROBERT
Fine Arts, 1966-1984

MARTIN, FRED
Biological Sciences, 1965-1992

MARTIN, NOEL
History, 1959-1984

MIRVISS, LYNN
Nursing/Administration
1971-1998

MORSE, GEORGE
English, 1965-1984

NEELEY, DOROTHY
Business, 1981-1993

PAPPAS, GEORGE
Speech/Drama, 1955-1984

PARKER, ALLEN
Chemistry, 1957-1989

PARKER, DAVID
Administration of Justice,
1973-1996

PARLIER, JASPER
Automotive Technology,
1968-1993

PETERSON, WAINO
Political Science, 1965-1996

PIETROFORE, AL
Fine Arts, 1957-1984

POWELL, GEORGE
Building Trades/Math
1984-1997

PRESSER, JOHN A.
English
1974-1997

RIDDLE, THOMAS
History
1984-1998

RINCON, MARIA
Nursing, 1991-1999

ROBERTSON, GLEN
English, 1957-1983

RYAN-STARMER, BEA
Business, 1977-1996

SARTAIN, ROBERT
Engineering, 1966-1999

SEASTROM, GREG
English, 1968-1996

SCOFIELD, JAMES
Geography/Meteorology,
1967-1988

SHEWEY, JEAN
Physical Education, 1959-1984

SILVA, VERNON
Dean, Student Services,
1957-1983

SINDLINGER, AL
Metals Technology, 1961-1990

STILES, AUDIE
Electronics, 1967-1992

STROM, AGNES
Registrar, 1950-1977

SWANSON, BETTY
Nursing, 1971-1978

SWEENEY, ALBERT
English, 1963-1984

SWISHER, JAMES
Mathematics, 1959-1984

TABER, MARLENE
Speech, 1989-1999

TAYLOR, ROY
Physical Education, 1950-1984

THEIGE, JACK
Information Services, 1960-1989

TOMASEVICH, ROBERT
Agriculture, 1971-1984

USELTON, KEN
Physical Education/Athletics
1976-1998

VANE, R.L.
Social Sciences, 1965-1980

VIEIRA, DONALD
Agriculture, 1965-1996

WALKER, LEWIS
Librarian, 1965-1984

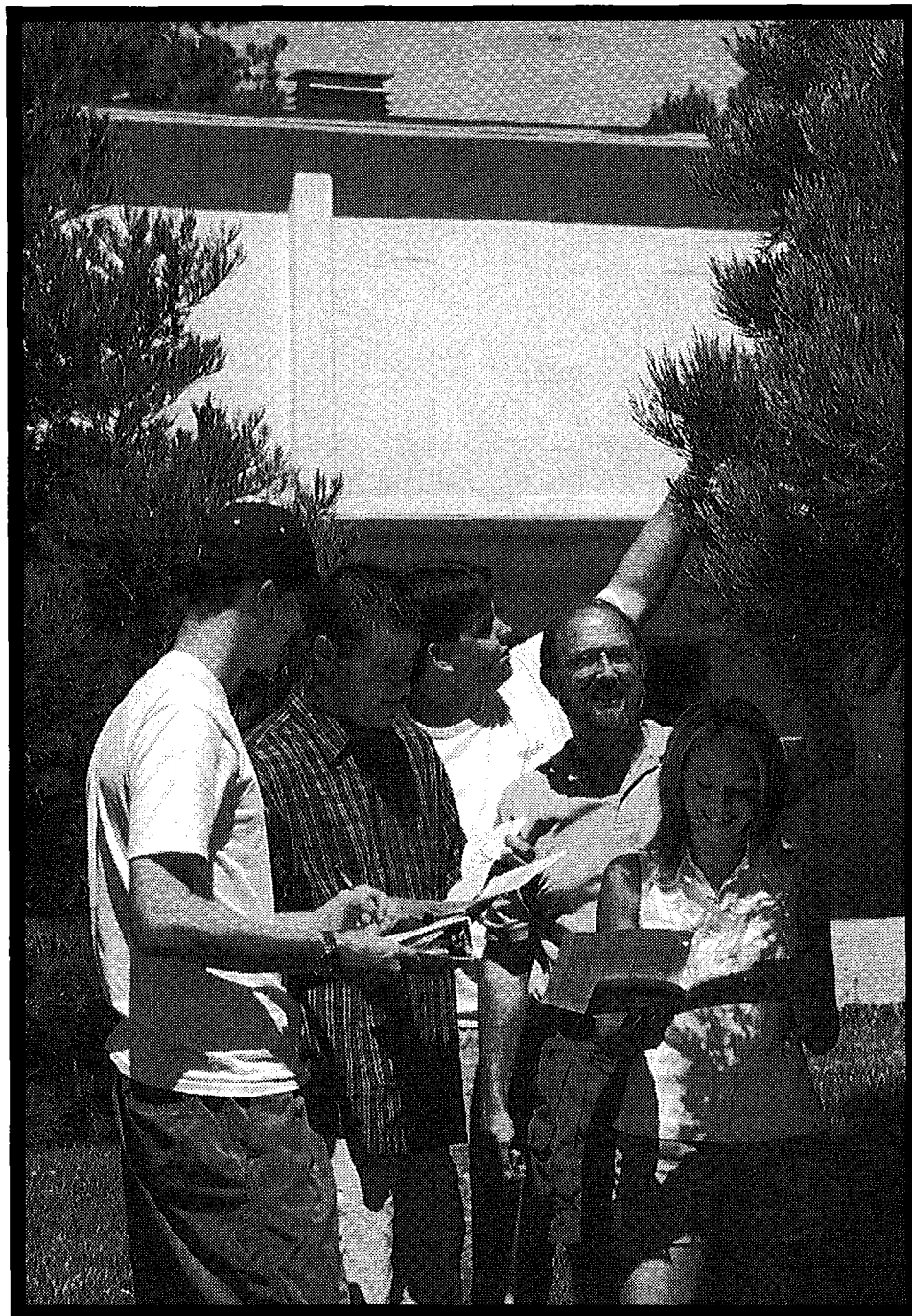
WEAVER, ARLENE
Nursing, 1979-1988

WEST, VERNON
Welding/English, 1976-1990

WESTON, DUANE
Music, 1975-1990

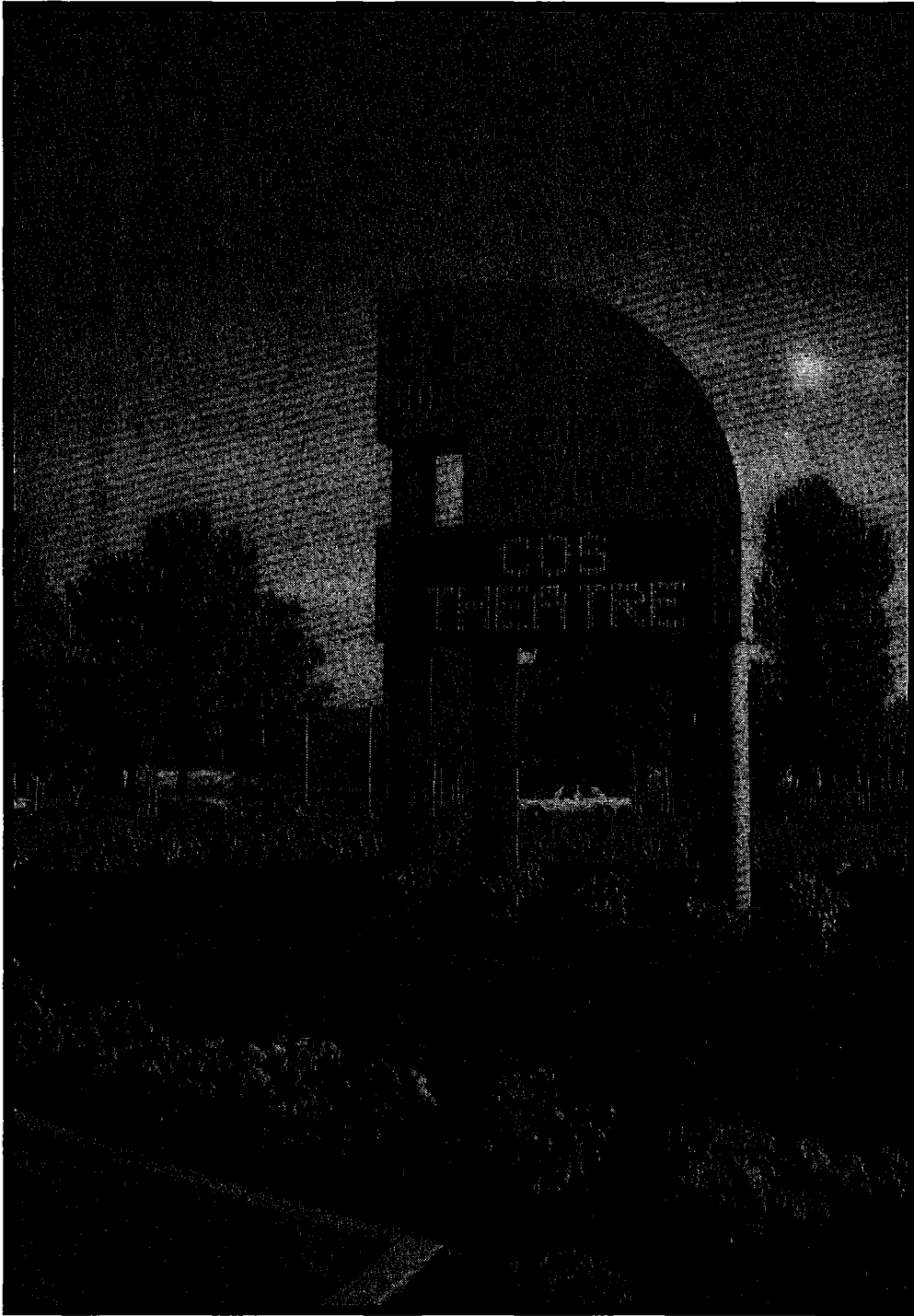
WHITE, MAXINE
Business, 1965-1977

WICKMAN, GAYLE
Nursing, 1974-1993



"To avoid criticism, do nothing, say nothing, be nothing."

Elbert Hubbard



"Well done is better than well said."

Benjamin Franklin

A

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Commercial Arts, Certificate	98
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Computer/Info Systems, Certificate/AS Degree	100
Computer Web Technician, Certificate	101
Computer Applications, Certificate/AS Degree	99
Computer	200
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