moorpark college catalog 1972-73
THE PHILOSOPHY

The Ventura County Community College District is dedicated to meeting the needs of the residents of the District for education beyond the high school level. The education provided is to help each student realize his greatest potential by cultivating his cultural and vocational abilities, by preparing him to assume the responsibilities of citizenship in a free society, and by utilizing his resources to achieve a rich, more productive life.

The guiding philosophy of Moorpark College is based on an enduring belief that each man wants to realize his own potential; and that, armed with this powerful motivating force, he has the capacity to learn, and thus, to direct his own destiny. To make progress toward this major objective, it is required that each member of the college community:

Have access to information about his natural environment, and himself, about society, and about his heritage.

Be provided an opportunity to gain understanding of important issues, concepts, and relationships.

Enjoy freedom to inquire, to explore, to take issue, and to choose.

Develop a level of competency that gives him a chance to become self-sustaining and discerning.

HISTORY

On July 1, 1962, the Ventura County Community College District became a legal entity charged with the operation of a program of public community college education in Ventura County.

The people of Ventura County are served by two colleges, Moorpark and Ventura. Ventura College has been in operation since 1925, first as a part of the Ventura Union High School District, later, as a separate institution. Moorpark College was established by Board action on March 19, 1963, to serve primarily in the rapidly growing communities of Medical Lake and Ventura County. The 134-acre hillside site for Moorpark College, located between Simi and Moorpark in eastern Ventura County, was selected early in 1963. Later that year the Moorpark College Advisory Committee was appointed by the Board and charged with making recommendations regarding finance, architecture, curriculum, and service. In April, 1964, this Committee reported to the Board, and plans were put into effect to bring the college into existence. In 1965, the master plan for developing the college was approved by the Board. This plan called for the construction of facilities in two phases, with the first phase completed in the fall of 1967 to accommodate 2,000 students. Eventual completion of the second phase will bring the plant capacity to 5,000 day students.

On July 1,1968, the Board of Trustees appointed Dr. John J. Collins as Moorpark College's first president. During 1966-67, Dr. Collins and his staff completed the plans for staffing, curriculum, student services, and plant occupancy. Moorpark College opened its doors to students for the first time September 11, 1967. Over 2,000 day and evening students attended classes at the college during its first semester. The college held its first open house December 3, 1967 with over 3,000 persons in attendance.

Moorpark College was officially dedicated and Dr. John J. Collins inaugurated as first President at colorful ceremonies May 3, 1968. The Honorable Houston F. Flomoyer, Controller of the State of California, was the principal speaker.

In May, 1968, the college received its first formal accreditation visit and was recommended for full accreditation by the Western Association of Schools and Colleges. Course offerings and programs have expanded with each succeeding semester. In its fourth year of operation, the college added a new Applied Arts building which provides facilities for Law Enforcement, Home Economics, operation of a Nursery School and Graphic Arts. The building features a special forum which can be used for large class instruction, lectures, films, and dramatic presentations. Our latest addition is a building to house the Theatre Arts program, an art studio, general purpose classrooms and offices.

The college, has grown from less than 1200 day students in its first semester to over 4000 day students anticipated for the full semester, 1972. An additional 3000 attend the college in the evening.

SPECIFIC OBJECTIVES

A. CURRICULUM

Consistent with the philosophy of providing educational opportunities, access to information, and the development of competencies, Moorpark College offers the following educational programs designed to meet the needs of those who choose to enroll.

1. General Education

Recognizing that man is more than a mere unit of production, and that students must learn to live as well as earn a living, Moorpark College emphasizes the values of general education. To this end, then, it is essential that a student develop a command of the written and spoken language, understand mathematics, have knowledge of the structure and function of the human body; develop an understanding of the history and political institutions of the United States; learn to appreciate beauty, form, and color; perceive his own roles and understand the society in which he lives, and become familiar with the elements of the scientific method.

2. Preparation for Transfer

Moorpark College provides programs and courses that satisfy the lower division requirements at four-year colleges and universities in general education and in a wide variety of pre-professional fields. Special care is exercised to see that these courses and programs are parallel with those offered at senior colleges, and that they do, in fact, transfer with full credit. Articulation with senior colleges is a joint responsibility of faculty and administration.

2. VOCATIONAL-TECHNICAL EDUCATION

Preparation for employment is an important and legitimate function of higher education. Moorpark College recognizes the changing nature of industrial society and, therefore, is committed to specific preparation as well as broad-gauge vocational-technical training that prepares for tomorrow as well as today. Vocational-technical programs are designed to provide entry-level skills, technical skills, technical knowledge that will permit employment mobility as changes occur, and general education that is the footing upon which specialized training is erected.

4. Developmental Programs

Moorpark College seeks to meet the needs of those who choose to enroll, but who are not fully prepared for the demands of college level instructional programs. Since the learning process takes place via the use of words and numbers, all students must develop command of the written and spoken language, as well as a degree of mastery of mathematical processes. Those who lack these skills will not find equal opportunity in the college classroom. Those students are, therefore, offered a well-programmed chance to improve, including developmental reading, vocabulary building, oral communication, basic mathematics, and logic.

B. CO-CURRICULUM

Moorpark College recognizes that students have many needs beyond those served by the formal curriculum. Students are viewed as full participants in the development of programs leading to effective self-governments, cultural enrichment, intellectual stimulation, and social growth. These programs should reflect the purposes of the college and the diversity of student interests and needs. Students do not merely experience the climate of the campus; they help create it and in doing so, exercise their privileges and responsibilities as citizens.

C. GUIDANCE

To help implement the philosophy of the “open door,” guidance services are provided to assist students in assessing their own capabilities, interests, and goals. Moorpark College is strongly committed to a policy of engaging students, counselor, faculty members, community resources, and necessary specialists in the very important task of helping students develop personal and vocational goals and values.

D. COUNSELING

At the counseling center, counselors are available daily to help students with their personal problems on a walk-in-no-appointment basis. Concerns and problems are held in the strictest confidence.

ADMISSIONS ELIGIBILITY

GENERAL Moorpark College admits all high school graduates or persons over 18 years of age who are capable of profiting from instruction.

SPECIAL Students disqualified from other institutions must schedule an appointment with the Dean of Students prior to admission.
OUT-OF-COUNTY California students with legal residence in one of the following community college districts must present a permit for attendance from that district before completing registration in classes at Moorpark College:

Antelope Valley Joint Community College District (Antelope Valley College)
Butte Community College District (Butte College)
Cabrillo Community College District (Cabrillo College)
Cerritos Junior College District (Cerritos College)
Compton Junior College District (Compton College)
Foothill Community College District (Foothill College, DeAnza College)
Fremont-Newark Community College District (Ohlone College)
Los Angeles Community College District (East Los Angeles College, Los Angeles City College, Los Angeles Harbor College, Los Angeles Pierce College, Los Angeles Southwest College, Los Angeles Trade-Tech College, Los Angeles Valley College, Northwest Valley College, West Los Angeles College)
Marin Junior College District (College of Marin)
Merced Community College District (Merced College)
Monterey Peninsula Community College District (Monterey Peninsula College)
Mt. San Jacinto Junior College District (Mt. San Jacinto College)
Redwoods Joint Community College District (College of the Redwoods)
Riverside Community College District (Riverside City College)
Saddleback Community College District (Saddleback College)
San Francisco Community School District (City College of San Francisco)
San Joaquin Delta Community College District (San Joaquin Delta College)
San Jose Community College District (San Jose City College)
San Mateo Junior College District (Canada College, College of San Mateo, Skyline College)
Santa Barbara Junior College District (Santa Barbara City College)
Santa Clarita Valley Community College District (College of the Canyons)
Shasta-Tehama-Trinity Joint Junior College District (Shasta College)
Siskiyou Joint Community College District (College of the Siskiyous)
Victor Valley Joint Junior College District (Victor Valley College)
West Hills Junior College District (West Hills College)
West Kern Junior College District (Taft College)
Yuba Community College District (Yuba College)

Students desiring to attend a community college listed above must obtain an application form in the Dean of Students’ office at Moorpark College. After completing the application and having it reviewed by the Dean of Students, the student must file the application with the Ventura County Community College District at 71 Day Road, Ventura. If the permit is granted, it will be issued by the District office.

The list of colleges is subject to change. Please check with the Records Office after July 1 concerning out-of-county permits.

OUT-OF-STATE Out-of-state residents and foreign students are charged a tuition fee fixed each year by the California State Legislature. Students on active duty in the United States Armed Forces, and their dependents, are exempt from tuition fees. Students carrying six units or less are required to pay tuition fees under current policy.

FOREIGN STUDENTS

Foreign students desiring to attend Moorpark College must follow the procedure outlined below:

1. Submit a completed application for admission.
2. Provide evidence of proficiency in the use of the English language. Students are required to complete the Test of English as a Foreign Language (TOEFL) and achieve a score of at least 505. For information they should write:
   Educational Testing Service
   Box 899
   Princeton, N.J. 08540
3. State a specific objective.
4. Submit a letter of recommendation and transcripts from preparatory schools and colleges previously attended.
5. Submit a confidential statement of finance.
6. Submit a health statement from an American physician. This statement must include TB X-ray results.
7. Immigration Department form I-20A will be issued only after all other prerequisites for admission have been met.

Moorpark College attempts to select for admission only those foreign students who are above average in scholastic achievement and personal qualifications.
ADMISSIONS PROCEDURE

1. APPLICATION FOR ADMISSION—Application may be obtained by calling the Records Office (529-2321, extension 256), or by writing to that office. This form should be completed and returned as soon as possible.

2. TRANSCRIPTS—Request the high school last attended to forward an official transcript of all work completed to the Registrar, Moorpark College. Students who have previously attended college must request that all colleges attended forward official transcripts to the Registrar, Moorpark College.

   Students transferring to Moorpark College from other colleges or universities are required to declare all previous college work evidenced by official transcript. Failure to provide complete information may result in dismissal from Moorpark College. Students transferring from accredited colleges will normally be granted credit for lower division courses which correspond to courses described in this catalog.

3. PLACEMENT—Placement of student in classes is based on high school transcript and the desire of the student. No placement test is required. If, however, there is no transcript available, or if the student has been out of high school for more than three years, he will need to take the placement test. These tests should not be misinterpreted as entrance examinations, they are used only to aid the counselor and student in placing the student in proper classes.

   At the discretion of the institution, tests may be required for placement in courses.

   Placement tests will be given during July and August on the Moorpark College campus. Specific information in regard to test dates can be obtained by calling the college, 529-2321, extension 219, or by writing to the Counseling Center, Moorpark College.

4. COUNSELING INTERVIEW—Each student will have the assistance of a counselor in planning his program of study. Preliminary thought should be given to the selection of a major and courses to gain the full benefit of the counseling conference. In planning a program, the student should consider abilities, skills, and personal qualities needed in selected vocational fields. Students who intend to transfer to another college at some future date should become aware of the requirements for transfer.

   The normal program of study is 15% to 17% units. Thus, the average student will complete the requirements for the Associate in Arts degree within four semesters. First-semester freshmen are encouraged to limit themselves to a normal program. Students whose previous semester grade-point average was 3.25 or above, or who have a cumulative GPA of 3.00 or more in two or more semesters' work may take up to 19% units. Those students who wish to enroll in more than 19% units are asked to confer with the Dean of Students.

5. REGISTRATION—Students may register immediately after counseling interviews. Student body number (available from the Bookstore) is required before registration.

6. POLIO AND MEASLES IMMUNIZATION—Students under 21 years of age, enrolling at Moorpark College for the first time, and who have not attended a California school must show evidence of immunization for measles and polio at the time of registration.

7. VALIDATION—Students who have completed their registration process must validate their registration by securing their schedule of classes.

8. LATE REGISTRATION—Late registration severely handicaps the student in achieving college success and should be avoided whenever possible.

   Ordinarily, a student may not register at Moorpark College after the second week of the semester. Exceptions will require approval of the Dean of Admissions and Records.

   Adding a class is an official transaction which may only occur if the student is registered. Students may add classes to their schedules through the third week of the semester. The instructor's written permission is required for each class added. Instructor's permission and regular attendance do not constitute registration.
EXPENSES

There is no tuition fee for students who qualify as legal residents of California. The maximum nonresident tuition fee for the 1972-73 academic year is $750.00 or $375.00 per semester. Tuition fees are $25.00 per unit to a maximum of $351.60 per semester. Membership in the Associated Student Body is $8.00 per semester. This entitles the student to free admission to all athletic events, college drama presentations, music programs, college film series, lectures, cultural events, and to accident insurance coverage.

Textbooks and supplies are available for purchase in the college bookstore located in the Campus Center. These items will cost approximately $35.00 to $60.00 per semester.

Transcripts of academic work taken at Moorpark College will be sent to any college or university, upon request of the student. Three requests for transcripts will be honored free of charge. For each additional request, there is a charge of one dollar.

FINANCIAL AID

Students who need funds for continuation of their education should apply for financial aid through their counselor or the Financial Aid Officer. To extend financial aid to the largest number of students, Moorpark College attempts to develop financial aid packages which combine grants, loans, and work-study. Students should be aware of deadline dates for applying for financial aid. These dates change from year to year, but information can be obtained by calling or visiting the financial aid office.

EDUCATIONAL OPPORTUNITY GRANT (EOG)

The Educational Opportunity Grant is a federal program. Students with exceptional financial need who attend MC may be eligible. A grant of this type ranges in amount from $200 to $800 per academic year, and can be no more than one-half the total assistance given to a student. The grant is not a loan and does not require repayment. In order to remain eligible, a student must maintain a full-time academic status and satisfactory grades.

NATIONAL DEFENSE STUDENT LOAN (NDLS)

The National Defense Student Loan Program provides loans up to $1000 per year. These loans bear simple interest on the unpaid balance at the rate of 3 percent. Interest is not charged, nor repayment required, until 9 months from the date the borrower ceases to be a full or half-time student. Repayment of such a loan is scheduled over a 10-year period.

WORK STUDY PROGRAM (CWS)

A limited number of qualified students may obtain employment through the work-study program. Students are limited to 15 hours per week while classes are in session, but at other times may work up to 40 hours per week. Average earnings during the nine-month academic year range from $600 to $800. Employment is available on or off campus.

FEDERALLY INSURED LOAN

The Financial Aid Officer will assist students in obtaining funds under the Federally Insured Program. The educational loan comes directly from a bank or other commercial lender. These loans bear simple interest on the unpaid balance at the rate of 7 percent. Interest is not charged, nor repayment required, until 9 months from the date the borrower ceases to be a full or half-time student. Repayment of such a loan is scheduled over a 10-year period. The Federal Government, in cooperation with designated State agencies, private nonprofit agencies, and participating lenders, has designed two main features to enable students to borrow from participating lending institutions assisting payment of their educational costs. First, State or private agencies or the Federal Government guarantee the loan to the lender in case of default or death on the part of the student borrower. Second, the Federal Government assists eligible students with the interest payments on their loans.

LAW ENFORCEMENT EDUCATIONAL PROGRAM (LEEP)

Students who are enrolled in the Law Enforcement Program leading to a degree or a certificate are eligible for a loan under the Law Enforcement Educational Program if the institution is awarded funds from the federal government. Awards to institutions are made annually, and there is no guarantee that the institution will be awarded funds. If funds are available, announcements will be made to all Law Enforcement students.

SCHOLARSHIPS

All scholarship awards are made on a competitive basis; consideration is given to scholastic achievements, financial need, and academic promise. Eligibility for a scholarship is determined from the applicant’s statement, official transcripts, and letters of recommendation. As scholarships become available for Moorpark College, announcements will be made in the COUNSELOR’S CORNER in the school newspaper.

EMPLOYMENT SERVICES

Students seeking part-time or permanent employment should apply at the Placement Office located in the Student Center. In the area of part-time employment, special emphasis is placed on locating work for which the student has been trained in order to relate his work experience to his vocational objectives. The placement service is available to current students, former students, and graduates.

Referrals for placement students are made on the basis of qualities demonstrated by the student during his college attendance. Since employers rely upon the college to furnish them with information helpful in evaluating applicants, the office works in close cooperation with department heads and instructors. Application should be made in person at the Placement Office.

STUDENT SERVICES AND PROCEDURES

COUNSELING AND GUIDANCE

A variety of counseling services is provided at Moorpark College to assist students during their college career. Counselors are available to aid each student in making his own important decision by helping him examine his abilities, attitudes and values, and to evaluate his goals and make his own decisions concerning educational and career directions.

Specific Counseling services include personal counseling, group counseling, career development academic guidance, and information regarding graduation requirements and requirements for transfer to the state college and universities.

ACADEMIC GUIDANCE

Selection of classes and the planning of academic programs is primarily the student’s responsibility. The counselor’s role is that of a “resource person.” A student is assigned a counselor and can drop in to see him at any time for a quick question or make an appointment for a longer session. The Counselor’s office schedule is posted on his door. Feel free to consult him at any time. Pamphlets and booklets are also available to aid the student with his academic planning.

PERSONAL COUNSELING

The Counseling and Guidance Department realizes that students at sometime or other have problems and concerns that interfere with learning. The drop-in Center located in L-215 (upstairs in the Library Building) is designed to help student with these concerns. It allows an opportunity to discuss the problem or concern with a professional counselor in an informal and confidential atmosphere. A counselor is available Monday through Friday. Students should feel free to come in and consult with a counselor.

RAP SESSIONS

There is also an opportunity for students to join a RAP group which is designed to discuss problems and concerns in a group setting, usually with students who have similar concerns and problems. Very effective method of problem solving is done in an informal and confidential atmosphere. The groups are primarily unstructured and facilitated by a professional counselor. See the Personal Growth Section of the catalog for the descriptions of the many rap sessions available.

CAREER RESOURCE CENTER AND CAREER DEVELOPMENT

Many students are in the process of searching for career choice. The Counseling and Guidance Department operates a full service facility with such unique features as an up-to-date library of career information, a variety of audio visual aids designed for career exploration, informative speaker programs, timely films, and most important, career development counselors are available five days a week to aid students in the process of career development.

Career planning classes are also available which are designed to help students become aware of themselves and to become aware of the many careers available to them. The class is specifically designed to develop within the student a philosophy and procedure of selecting a career, to become aware of oneself, aware of careers and how the two factors are related. See the Personal Growth Section of this catalog for details regarding the career development class.

HEALTH SERVICES

Health services are available at the Health Center, which is located in the Administration Building, A-115. The college nurse is on duty daily to confer with students regarding health and illness problems. A doctor’s services are available at specified hours with an appointment.
ACADEMIC POLICIES

GRADING SYSTEM

The quality of a student's work will be measured by a grading system as follows:

A-Excellent: 4 grade points per unit
B-Good: 3 grade points per unit
C-Average: 2 grade points per unit
D-Minimum passing: 1 grade point per unit
F-Failing: 0 grade points per unit
I-Incomplete: 0 grade points (no unit credit granted)
W-Withdraw: 0 grade points (no unit credit granted)
CR-Credit: 0 grade points (unit credit granted)
NC-No Credit: 0 grade points (no unit credit granted)

INCOMPLETE GRADES

A grade of I (incomplete) is given to those students who fail to complete the required work of the course because of extenuating circumstances, e.g., missing the final examinations because of illness, or who have petitions granted to take late examinations.

At the time the instructor assigns the "I" grade he will also assign an alternate letter grade to be awarded the student in the event that the incomplete work is not completed. If the student makes up the work within one semester, the instructor will assign a new letter grade. After one semester, if the incomplete work is not made up, the alternate grade initially assigned for the course will take effect. Incomplete grades are not to be counted in computing grade point average.

WITHDRAWAL FROM COLLEGE

It is the student's responsibility to formally clear his record if he withdraws from college before the end of the semester. Grades at the time of withdrawal will be recorded according to the rules governing dropping of courses.

DROPPING A COURSE

The student may drop a course at any time during the semester. No grade check will be made during the first six weeks. Beginning with the seventh week, a student may be dropped with a "W" or with an "F", at the discretion of the instructor. The student dropping a course should notify his instructor and/or record the drop promptly in the Records Office.

REPEATED COURSES

A course in which a grade of "C" or better has been earned may not be repeated except as stated in the catalog course description or following a prolonged lapse of time between a prerequisite course and a subsequent course. A student must confer with the appropriate college administrative officer before repeating a course in which he has received a "C" or better letter grade. Any course in which a grade of "D" or "F" was earned may be repeated for the purpose of improving the recorded grade. The first grade may be lined through and omitted from the computation of cumulative grade point average. The second grade earned in such cases of repetition shall become the grade considered in computing the grade point average.

CREDIT BY EXAMINATION

Granting unit credit for a course by examination is based on the principle that previous experience, training, or instruction is the equivalent of a specific course taught in the college. If an examination indicates that the student possesses adequate equivalency and mastery of the subject, credit may be granted. The student's record shall show coursework identification and the number of units granted by examination; no letter grades shall be awarded. Each division of the college determines which of its courses for which credit by examination may be granted.

Exception to the above may be made when necessary to meet provisions of California state law or the rules and regulations of state agencies governing programs of the California Community Colleges.

For the purpose of this policy, a course shall mean an organized area of instruction of one semester's duration as described in the college catalog with units designated, and which is regularly offered on the schedule of classes. Regularly offered shall mean a frequency of not less than once in two years.

Credit by examination may be granted only to a student who is registered at the college and is in good standing.

The amount of unit credit granted by examination to an individual shall not count toward requirements of residence.
Moorpark College is authorized to grant credit by examination under the following conditions:

1. Students shall present written petitions for credit by examination. Approval may be granted by the Office of Instruction after consultation with and recommendation of appropriate staff members.

2. Course credit by examination shall not be permitted in the following areas:
   a. Remedial courses
   b. Courses where the materials have been satisfactorily completed at a previous school.

CREDIT-NO CREDIT

The student may enroll in specified courses under either the letter grading system or the "credit-no credit" grading system (except as indicated in the second paragraph). In both systems, the student participates in the course as a regular student. Under the "credit-no credit" system, if in the instructor's judgment the student satisfactorily completes the material (C grade or better), he will be assigned a "credit" grade for the course. If in the instructor's judgment, the student does not satisfactorily complete the course material, a "no-credit" grade will be assigned. A student may not enroll in more than 5% units of "credit-no credit" courses in any one semester. Also, a student may not accumulate more than 20 units toward graduation under the "credit-no credit" system of grading.

All remedial courses, institutes, orientation courses and work experience courses will be under the "credit-no credit" system.

ADVICE TO STUDENTS CONCERNING CREDIT-NO CREDIT COURSES

In all cases students should complete course work in the area of their major on the letter grade basis. In addition, it is advisable that the student take the supporting courses which are affiliated with the student's major on a letter grade basis.

Enrollment in courses on a "credit-no credit" basis should only be attempted after consultation with the counselor to assure that the course work attempted will fit within the recommended patterns prescribed for the student's major by the anticipated transfer institution and this college's rules pertaining to the 9% units per semester rule and the 20 units maximum rule for "credit-no credit" courses.

The student should discuss with each instructor the basis for earning credit in "credit-no credit" courses. The criteria for success in these courses is determined by the instructor.

DEAN'S LIST

Special recognition is accorded students who complete a program of 12 or more units with a 3.50 grade point average or higher during a semester. These students are placed on the Dean's List and given appropriate recognition on campus and in the community.

PROBATION-DISMISSAL POLICY

A. INTRODUCTION

Probation-dismissal principles and policies are designed to assist students to make progress toward realistic educational, vocational, and personal goals. Each student who chooses to enroll should be encouraged to take advantage of the opportunity to realize his full potential. Limitations regarding programs, courses, and unit loads are consistent with the philosophy of providing an opportunity to succeed.

The following principles and policies are consistent with the provisions of the Education Code and Title 5 of the California Administrative Code.

B. PRINCIPLES GOVERNING THE ADMINISTRATION OF ADMISSION—PROBATION—DISMISSAL POLICIES

1. High school graduates or persons 18 years of age or older, capable of profiting from the educational programs offered, shall be admitted by the colleges of the District.
2. The admissions officer at each college shall have the responsibility of administering probation-dismissal policies.
3. Probation-dismissal policies, as applied to individual students, are to be administered in such a manner as to respect the integrity and privacy of the student.
4. A dismissed student who applies for readmission must make a written statement supporting his readmission. A student who is readmitted must, with the assistance of a counselor, undertake a thorough reassessment of his educational and vocational goals which shall be made a matter of record.
5. A student transferring to a Ventura County Community College District college from another college is subject to the same probation-dismissal policies as Ventura County Community College District students.

6. Admission to graded classes is conditional until complete transcripts have been received from previous schools and colleges attended.

7. A student subject to dismissal has the right of appeal for a review of his case.

C. RULES GOVERNING ACADEMIC PROBATION

1. A student placed on probation shall be provided individual counseling and guidance services, including regulation of his program according to subject matter prerequisites, aptitude and achievement.

2. A student will be placed on probation when his cumulative or semester grade averages fall below 2.00. Computations will be based on all college work attempted.

3. A student will be placed on probation when he has accumulated “no-credit” grades in at least one-half but not three-fourths of the units attempted under the “credit-no credit” system, or when, in the previous semester, he received “no-credit” grades in at least one-half but not three-fourths of the units attempted under the “credit-no credit” system.

4. A newly entering student who is not a high school graduate shall be placed on probation.

5. A newly entering student who is a high school graduate, but whose high school average for the last three years of high school attendance was less than 2.00 for all subjects attempted (excluding physical education and military sciences), shall be placed on probation.

D. RULES GOVERNING DISMISSAL

1. A student who does not meet District academic standards is subject to dismissal. Rules governing dismissal apply to any student who has attempted twelve (12) or more semester units or the equivalent.

2. A student shall be subject to dismissal when his grade averages for three consecutive semesters fall below 1.75. Computations will be based on all college work attempted.

3. A student shall be subject to dismissal when he has received “no-credit” grades in three-fourths or more of the units attempted under the “credit-no credit” system.

4. A student who, after two semesters of attendance, is deficient 20 grade points or more, shall be subject to dismissal.

5. A student dismissed under the above rules shall not be reinstated until a minimum of one semester (or two quarters) has elapsed after the dismissal.

E. EXCEPTIONS TO DISMISSAL

1. An exception to dismissal may be made in the event of extreme and unusual circumstances that can be documented by evidence provided by the student.

2. At each college of the District, a committee shall be established representing admissions, counseling, and instruction to rule on exceptions in the application of dismissal policies.

GRADUATION REQUIREMENTS FOR THE ASSOCIATE OF ARTS DEGREE

As authorized by the Education Code and Title 5 of the Administration Code of the State of California, the Ventura County Community College District Board of Trustees confers the Associate of Arts degree to students who meet the following requirements and who file a Notice of Intent to Graduate.

A. GENERAL REQUIREMENTS

1. Completion of sixty (60) semester units of college work in a curriculum described in the college catalog with a grade point average of not less than 2.00.

2. A 2.00 grade-point average in all work in residence which applies to the degree.

3. Completion of the last twelve (12) semester units in attendance at an institution of the Ventura County Community College District, or the completion of fifty-four (54) semester units in residence, if not in attendance at the time of qualifying for graduation.

4. Completion of a major consisting of at least twenty (20) semester units in a specified field of study.
5. Completion of not less than twenty-five (25) semester units in general education outside of the major field of study.

B. GENERAL EDUCATION REQUIREMENTS  

Semester Units

1. Social Science 6-9
   (Including at least three units in American History & Institutions.)

2. English/Speech 6
   3 to 6 units as required in transfer major. Must include at least
   three (3) semester units in English composition.

3. Natural Science/Mathematics 3-5

4. Fine Arts 2

5. Health Education 2

6. Physical Education (4 semesters required) 2

C. In designated occupational curricula, the Associate of Arts degree may be conferred in the specific field of study, such as electronics, business, fire science, etc.

D. A student who meets the requirements for transfer to a four year college or university, and who has completed lower division subject requirements for entry into an upper division subject major, shall be deemed to have met the requirements of A-4 above.

TRANSFER INFORMATION

Students may complete their program of freshman and sophomore courses at Moorpark College prior to transferring to a senior institution. Admission practices to four-year institutions are continually in the process of change. Students should therefore exercise care in checking entrance requirements at the college to which they intend to transfer. Moorpark College students who maintain the scholarship indicated below may expect to make a satisfactory transfer to the institution of their choice.

TO STATE COLLEGES: Students eligible for the State college on the basis of their high school record may transfer to the State college at any time as long as their community college grade-point average is 2.0 or better.

Students who were ineligible for the State college on the basis of their high school record will be admitted to the State college upon completion of 60 units of community college work and a 2.0 grade-point average. Students may transfer a maximum of 70 community college units to State colleges.

TO THE UNIVERSITY OF CALIFORNIA: Students eligible for admission from high school will be admitted to the University at any time as long as their community college grade-point average is 2.00 or better. Students ineligible for admission because of high school subject deficiencies may establish eligibility by completing the required courses with a C or better, and completing a minimum of 12 college units with at least a 2.00 grade-point average. Students ineligible for admission from high school because of grade-point deficiency may establish eligibility by taking a minimum of 56 acceptable units with a grade-point average of 2.40 or better.

Students may transfer a maximum of 70 community college units to the University of California.

CERTIFICATES OF COMPLETION

Moorpark College awards Certificates of Completion to students who have successfully completed specified courses in certain occupationally-related subject areas. These Certificates are available to students in two classifications: Occupational and One-Year.

The Occupational Certificate for in-service students requires completion of a minimum of 21 units of course work, including 6 units of general education, by a student regularly employed in the field to which the subject-matter major is related.

The One-Year Certificate for pre-service students requires completion of a minimum of 30 units of course work, including 9 units of general education, by a student preparing for a related occupational field. For both of these certificates 6 units of required course work in the major must be taken at the college. The specific requirements for each certificate are shown in the respective curriculum patterns in the catalog.

YEAR COURSES - Courses requiring a year (two semesters) in which to complete the full offering are designated by number and letter. (Example, History 15A/B.) The A section of the course is usually offered in the fall semester with the B section following in the spring. However, some year-sequence courses begin in the spring semester. For year-sequence classes, the "A" course is generally required as a prerequisite for the "B" course.

SEMESTER UNIT VALUES - The semester unit value of the course is shown by a number (or numbers) in the case of year courses following the title of the course. The semester unit is based on three hours of work-study; one lecture hour with two attendant hours of preparation or three hours of laboratory activity requiring special facilities or equipment. The standard credit allowance per semester for the course is stated in the description.

In order to meet specific needs in certain subject matter areas in the summer session and in the extended day program, the hours of instruction in some courses are changed and the credit changed proportionately. When an offering is changed from the hours and units as stated in the catalog, the appropriate current class schedule the course will be identified by an "x" following the course number, i.e., HE 10x.

SCHEDULE OF COURSES - Courses listed are offered as a regular part of established curricula or when demand warrants. The current schedule should be consulted to determine the availability of specific courses.
ADMINISTRATION OF JUSTICE

LE 1 - INTRODUCTION TO LAW ENFORCEMENT
Prerequisites: None. 3 hours lecture weekly.
The philosophy and history of law enforcement; overview of crime and
crime problems; organization and jurisdiction of local, state, and federal
law enforcement agencies; survey of professional career opportunities and
qualifications required.
Equivalent to PSA 101, CSCLA
3 Units

LE 4 - CRIMINAL LAW
Prerequisite: Recommend LE 1 concurrently. 3 hours lecture weekly.
The structure, definitions, and the most frequently used sections of the
Penal Code and other criminal statutes.
Equivalent to PSA 129, CSCLA
3 Units

LE 5 - INVESTIGATIVE REPORT WRITING
Prerequisite: Sheriff's Academy Recruit 3 hours lecture weekly (six weeks)
Covers fundamentals of basic report writing from spelling, sentence
formation and punctuation to writing a paragraph, theme and technical
report.
1 Unit

LE 7 - MINORITY GROUP POLITICS
Prerequisites: None. 3 hours lecture weekly.
A study of the historical and contemporary political problems faced by
religious, ethnic, sexual, low income, and racial minorities in America. The
course is intended to study the environment America creates for the
minority group member, the prejudice he faces, and the means he finds for overcoming
the prejudice and becoming an equal participant in the political process. The
political process is seen as an area in which majority-minority relations are
studied and where negotiations and compromises are achieved in solving
minority group problems. (Co-number: Pol Sci 71).
3 Units

LE 8 - CRIMINAL EVIDENCE
Prerequisite: LE 1, LE 4 or consent of instructor. 3 hours lecture weekly.
The kinds and degrees of evidence and the rules governing the admissibility of
evidence in court.
Equivalent to PSA 221, CSCLA
3 Units

LE 9A - FIREARMS
Prerequisite: LE 1 and LE 4 or consent of instructor 3 hours laboratory weekly.
The moral aspects, legal provisions, safety precautions and restrictions
covering the use of firearms; firing of the side-arm and shotgun.
Equivalent to PSA 263, CSCLA
1 Unit

LE 10 - PATROL PROCEDURES
Prerequisite: LE 1 and LE 4 or consent of instructor. 3 hours lecture weekly.
Responsibilities, techniques, and methods of police patrol.
Equivalent to PSA 238, CSCLA
3 Units

LE 11 - CRIMINAL INVESTIGATION
Prerequisite: LE 1, LE 4 and LE 15 or consent of instructor 3 hours lecture weekly.
Fundamentals of investigation; crime scene search and recording; collect-
ion and preservation of physical evidence; scientific aids; modus operandi;
sources of information; interviews and interrogations; follow-up and case
preparation.
Equivalent to PSA 235, CSCLA
3 Units

LE 12 - DEFENSIVE TACTICS
Prerequisites: LE 1 and LE 10 or consent of instructor 2 hours laboratory weekly.
Protection against persons armed with dangerous and deadly weapons;
demonstration and drill in a limited number of holds and come-alongs;
restraint of prisoners and the mentally ill; fundamental use of the baton. This
Course fulfills PE requirement of Law Enforcement majors.
Equivalent to PSA 282, CSCLA
½ Unit

LE 13 - TRAFFIC CONTROL AND INVESTIGATION
Prerequisites: LE 1, LE 4 and LE 15 or consent of instructor 3 hours lecture weekly.
Traffic law enforcement, regulation, and control; fundamentals of traffic
accident investigation; California Vehicle Code.
Equivalent to PSA 236, CSCLA
3 Units

LE 14 - JUVENILE PROCEDURE
Prerequisites: LE 8, LE 10 and LE 15 or consent of instructor 3 hours lecture weekly.
The organization, functions, and jurisdiction of juvenile agencies; the
processing and detention of juveniles; juvenile case disposition; juvenile
statutes and court procedures.
3 Units

LE 15 - ADMINISTRATION OF JUSTICE
Prerequisites: None. 3 hours lecture weekly.
Review of court systems; procedures from incident to final disposition;
principles of constitutional, federal, state, and civil laws as they apply to and
affect law enforcement.
3 Units

LE 16 - ARREST, SEARCH, AND SEIZURE
Prerequisites: LE 4, 8, and 15; or permission of instructor 3 hours lecture weekly.
Admissibility of evidence and confessions; recent judicial decisions
interpreting civil rights; problems involving the reconciliation of individual
rights and collective security and the prevention of criminality. Special
emphasis on the Bill of Rights and major enforcement problems and
constitution limitations in perspective.
3 Units

LE 18 - NARCOTICS INVESTIGATION
Prerequisite: Peace Officer or permission of coordinator. 3 hours lecture weekly.
The manufacture of marijuana, amphetamines, cocaine, dangerous drugs,
hallucinogens and their paraphernalia. Principles of identifying and dealing
with the "user". Laws and court decisions relating to the offender, fundamental of
arrest, search, report writing, and court testimony. The prevention and control of drug
abuse as it relates to society.
3 Units

LE 19 - VICE CONTROL
Prerequisite: Peace officer or permission of coordinator. 3 hours lecture weekly.
Detection, repression and control of vice, gambling, prostitution, liquor
law and sex offender violations. Vice law and court procedures. The course is
intended to provide knowledge and skill in the recognition, investigation and
control of vice offenses.
3 Units

LE 20 - POLICE ADMINISTRATION
Prerequisites: Police Officer or permission of coordinator 3 hours lecture weekly.
Administrative, management and organization principles applicable to law
enforcement agencies. Fundamentals of organization and management of
police, traffic, detective, juvenile, vice, records and detention units. Personnel
management, fiscal planning, manpower development, formulation of policies and
regulations.
3 Units

LE 21 - INTRODUCTION TO CRIMINALISTICS
Prerequisites: Peace officer or permission of instructor 3 hours lecture weekly.
Collection, preservation, analysis and interpretation of physical evidence of
various types including: fingerprints, footprints, tire tracks, tool marks,
ballistics and glass; photographic techniques. Ultra-violet and infrared tech-
niques. Firearms identification. Silicone rubber, plaster of paris and moulage
casting of impressions.
3 Units

LE 23A-B - DIRECTED STUDIES IN LAW ENFORCEMENT
Prerequisite: A course in the specific field and permission of the coordinator and Division Chairman.
1-3 Units 1-3 hours tutorial weekly.
Designed for selected students who are interested in furthering their
knowledge of law enforcement on an independent study basis. Assigned
problems will involve library, laboratory, and field work. Maximum of 6 units.

LE 25 - RESCUE FIRST AID
Prerequisites: Sheriff's Academy Recruit 6 hours lecture weekly (six weeks)
The human body, emergency care of victims, child birth, artificial
respiration, toxic gases, chemicals and diseases, radioactive hazards, rescue
problems and techniques. The prevention of shock, unconsciousness and
poisoning; treatment of fractures; administration of dressings and bandages;
care and treatment of vehicular and other emergency related injuries.
Successful completion of this course qualifies for the standard or advanced
"American Red Cross First Aid to the Injured" Certificate.
2 Units

LE 26 - BASIC TRAINING FOR THE EMERGENCY AMBULANCE TECHNICIAN
Prerequisites: None. 3 hours lecture weekly.
The course covers the techniques of emergency medical care presently
considered to be within the responsibilities of ambulance attendants as well as all
operational aspects of the job which he will be expected to perform.
3 Units

LE 27 - CIVIL DUTIES AND PROCEDURES
Prerequisite: Peace officer or permission of coordinator 3 hours lecture weekly.
The duties, rights, and liabilities of marshals, civil deputies, peace officers
and clerical personnel in civil law enforcement. Includes levies, service of civil
process, third party claims, writs, sales and delivery actions.
3 Units
LE 30 - ADVANCED OFFICER TRAINING
Prerequisites: Employed peace officer and permission of Department Head
3 hours lecture weekly.
A course of study designed to keep peace officers informed of new laws, recent court decisions, current enforcement procedures, new concepts in police technology, community-policerelations, law enforcement ethics, and police integrity.

LE 49A-B - DIRECTED WORK EXPERIENCE IN LAW ENFORCEMENT
Prerequisites: Consent of Coordinator
5 - 16 hours laboratory weekly
On-the-job training for students under the supervision of instructor and employer. An introduction to law enforcement policies, program practices, and procedures in the law enforcement field and related areas.

LE 50 - LAW ENFORCEMENT INSTITUTES
Prerequisites: Criminal Justice Personnel or permission of Coordinator
4 short term lecture series on specialized law enforcement technology designed for criminal justice personnel.

CORRECTIONAL ADMINISTRATION
Faculty: Jack Fleming, Coordinator

CA 1 - INTRODUCTION TO PROBATION, PAROLE & CORRECTIONS
Prerequisites: None
3 hours lecture weekly.
An introduction to the legal and practical aspects, practices, and procedures of probation and parole including an analysis of both with emphasis on rehabilitation and classification methods in criminology.

CA 9 - INTERPERSONAL RELATIONS
Prerequisites: CA 1 or taken concurrently
3 hours lecture weekly.
Knowledge of concepts leading to effectiveness in interpersonal relations and increased understanding of self and others, with emphasis on facilitating effective communication.

CA 7 - INTERVIEWING; COUNSELING AND TUTORING
Prerequisites: CA 6 or taken concurrently
3 hours lecture weekly.
Introduction to the principles and practices of interviewing, counseling and tutoring. An integral part of the two-year curriculum in correctional services, designed to answer the national need of the "new careers" on all academic levels in people-to-people services. These include counselor and group counselor aides, teacher aides, eligibility workers, social worker technicians, and other pre-professional positions.

CA 8 - TECHNIQUES OF GROUP COUNSELING
Prerequisites: CA 6 or CA 7
3 hours lecture weekly.
Techniques of counseling in groups with people of a variety of ages. Group exploration and sharing of feelings about problems presented. Recognition of unique and common problems, and participation in understanding and behavior change.

CA 22A-B - DIRECTED STUDIES IN CORRECTIONAL ADMINISTRATION
Prerequisites: A course in the specific field and permission of the coordinator and Division Chairman
1-3 hours tutorial weekly.
Directed for selected students who are interested in furthering their knowledge of correctional administration on an independent study basis. Assigned problems will involve library, laboratory and field work. Maximum of 6 units.

AGRICULTURE

AB 1 - INTRODUCTION TO AGRICULTURE BUSINESS
Prerequisites: None
3 hours lecture weekly.
Business principles as they apply to agriculture business enterprises in related agricultural areas that service and supply production agriculture, i.e., agricultural chemical sales and services, agricultural equipment sales and service, and others.
Equivalent to AB 101, Cal Poly SLO

AB 2 - RECORD KEEPING
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly
The study of basic record keeping procedures used in production agriculture. Required course for all agriculture students.
Equivalent to CP 131, Cal Poly SLO
Parallel: Plant Science 1, UC Davis

Agron 1 - INTRODUCTION TO AGRONOMY
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly.
Plant structures and their functions; crop ecology and basic factors affecting crop and crop production. Identification of crops, weeds and diseases. Weed control in this locality. Seed production, including certified seed.
Equivalent to CP 131, Cal Poly SLO
Parallel: Plant Science 1, UC Davis

Ag 10 - AGRICULTURE CONSTRUCTION AND MAINTENANCE
Prerequisites: None
1 hour lecture, 3 hours laboratory weekly.
Construction techniques, materials, structural planning and maintenance of agricultural structures and equipment. Carpentry and masonry tools, hardware and materials as applied to construction and maintenance of various agricultural structures. Use of hand and power equipment.

Ag 21 - SOILS
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly.
Physical, chemical, and biological properties of soils, the factors determining productivity, soil classification interpretation and evaluation of soil practices used in agriculture, laboratory work in soil sampling and testing, organic materials and microbiology, soil fertility and reclamation, use of soil maps, soil and water experiments.
Equivalent to SS 121, Cal Poly SLO
Parallel: Soil and Water Science 1, UC Davis

Ag 22A-B - DIRECTED STUDIES IN AGRICULTURE
Prerequisites: A specific course in the field and consent of the instructor and Division Chairman
1-3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of agriculture on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.

Ag 49A-B - DIRECTED WORK EXPERIENCE IN AGRICULTURE
Prerequisites: Consent of Instructor and Division Chairman
5-16 hours laboratory weekly.
On-the-job training for students under the supervision of instructor and employer. An introduction to agriculture policies, program practices, and procedures in specific fields. Maximum of 6 units.

AH 1 - INTRODUCTORY ANIMAL HUSBANDRY
Prerequisites: None
2 hours lecture, 2 hours laboratory weekly.
Survey of livestock production in the community, state, nation and world. Study of anatomy and physiology, genetics, nutrition, livestock selection, and management. Marketing of the breeds of beef, dairy, swine, sheep and poultry and their products.
Equivalent to AH 250, Cal Poly SLO
Parallel: Animal Science 1, UC Davis

AH 2 - FEEDS AND FEEDING
Prerequisites: AH 1
2 hours lecture, 3 hours laboratory weekly.
Nutritional requirements of livestock. Balancing of feeding rations. Costs of feed rations. (F)
Equivalent to AH 121, Cal Poly SLO
Parallel: Animal Science 1, UC Davis

AH 3 - SELECTION - LIVESTOCK
Prerequisites: AH 1
7 hours lecture, 2 hours laboratory weekly.
Techniques and procedures used in livestock selection. (F,S)

AH 4 - LIVESTOCK MANAGEMENT
Prerequisites: AH 1
3 hours lecture, 2 hours laboratory weekly.
The development of a total livestock management program applied to a basic economic unit in agriculture. Use of budgets, inventories, and cost accounting in livestock practices. (F)

AH 5 - HORSE HUSBANDRY I
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly.
Care of horse and equipment, use and management of animals and equipment, types of breeds and use, economics of riding animal and its relationship to the environment. Field trips to local equestrian centers. (F)
AH 6 - HORSE HUSBANDRY II
3 UNITS
Prerequisites: AH 5
2 hours lecture, 3 hours laboratory weekly
Horse ranch management, breeding and care of the mare and foal, basic training techniques, outside speakers on disease and insect control, and above referenced topics. Field trips to local equine centers.

AH 2A/B - LECTURES IN HORSE HUSBANDRY
2-2 UNITS
Prerequisites: None
2 hours lecture weekly
Lecture series based on the selection, health and care of riding horses. Lectures to be given by knowledgeable people in the particular areas of concern. Topics include quarter horse selection, araban horse selection, saddle breeds and selection; thoroughbred selection; inspections; safety; common diseases, feeds, and colt care.

Ent 1 - ECONOMIC ENTOMOLOGY
3 UNITS
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly
Common insects that attack agricultural crops and stored products; basic taxonomy of the major orders; identification, life cycles, habits, hosts, economic importance, and control of the principal insects in agriculture; identification and evaluation of beneficial insects. Insect collection required. Equivalent to CP 311, Cal Poly SLO
Parallels Entomology 10, UC Davis

For 1 - INTRODUCTION TO FORESTRY
3 UNITS
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly
An introduction to the occupations and professions in the general area of natural resources with emphasis on the general principles underlying the management of forests, parks, wild game and fisheries. Weekly field trips will take students to the local natural resource agencies. Equivalent to NRM 102, Cal Poly SLO
Acceptable for credit at UC (all branches)

For 2 - NATURAL RESOURCES
3 UNITS
Prerequisites: None
3 hours lecture weekly
Economic and social values of our natural resources. History of man in relation to land use, human population in relation to resources; history of the conservation movement; present day conservation practices. Equivalent to NRM 101, Cal Poly SLO
Acceptable for credit at UC (all branches)

For 3 - FOREST PROTECTION
3 UNITS
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly
Forest production, including principles of combustion, weather, fire control, topography, fuels, classes of fires and fire behavior. Fire prevention including fire suppression and fire equipment. Enemies of the forest, including disease, insects, fungi, animals, etc. Acceptable for credit at Cal Poly SLO

For 4 - FISH AND GAME MANAGEMENT
3 UNITS
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly
A study of fish culture including operation of facilities for production of sport and commercial fish; management, feeding, parasites and diseases. Management of species of small and large game mammals, their life histories, distribution, management and conservation. Acceptable for credit at Cal Poly SLO

For 5 - PARK SITE DEVELOPMENT
3 UNITS
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly
Construction of systems necessary to development of park sites: concrete block wall, brick, watering systems and carpentry. Use of tools required. (Co-number Hort 5)

HORT 1 - INTRODUCTION TO HORTICULTURE
3 UNITS
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly
The landscape industry in California, the wholesale grower, the job, the retail nursery, the garden center and other outlets for landscape plants and materials. A study of nursery location, organization and operation. Practice in production of ornamental plants. Equivalent to OH 100, Cal Poly SLO

HORT 2 - PLANT STRUCTURE
3 UNITS
Prerequisite: None
2 hours lecture, 3 hours laboratory weekly
Introduction to plant structure with emphasis on roots, stems, leaves, flowers, fruits, seeds and inflorescences. Gross structure is emphasized rather than microscopic analysis and the objective is to prepare the student for courses in plant propagation and plant identification. Acceptable for credit at Cal Poly SLO
HORT 3 - PLANT PROPAGATION
Prerequisite: Hort 2 or consent of instructor
2 hours lecture, 3 hours laboratory weekly.
Production of ornamental trees, shrubs, vines and ground-covers by cuttings, budding, grafting, layering, separation and division; lining out, ballot, bare root |canning, growing of cutting material, growing liners; pruning and training espaliers, specimen plant production. 
Equivalent to OH 233, Cal Poly SLO

HORT 4 - PLANT IDENTIFICATION
Prerequisite: |Hort 2 or Bio 2A or Bot 1
3 hours lecture, 3 hours laboratory weekly.
Identification, habits of growth, culture of native plants and landscape use of ornamental trees, shrubs, vines, annuals, herbaceous perennials including tropicals, subtropicals, and house plants. 
Equivalent to OH 152, Cal Poly SLO

HORT 5 - LANDSCAPE CONSTRUCTION & MAINTENANCE
Prerequisite: Hort 1
2 hours lecture, 3 hours laboratory weekly.
Pruning and maintenance of landscape shrubs and trees. Design and maintenance of landscape watering systems. Construction of concrete block, brick and wood walls and walks. (Co-Number For S) Equivalent to AE 121-122, Cal Poly SLO

HORT 6 - LANDSCAPE DESIGN
Prerequisites: Hort 1, Hort 2, Hort 4
2 hours lecture, 3 hours laboratory weekly.
Basic drafting techniques needed in landscape design. Use of plant materials in the landscape design. Basic landscape design principles. Acceptable for credit, Cal Poly SLO

HORT 7 - NURSERY PRACTICE
Prerequisites: Hort 1, Hort 2
2 hours lecture, 3 hours laboratory weekly.
Forcing of flowering plants. Citrus and avocado propagation. Cost analysis of basic nursery practices. (S) Equivalent to OH 121, Cal Poly SLO

HORT 23A - ORGANIC POLY CULTURE
Prerequisites: None
1 hour lecture, 6 hours laboratory weekly.
Involves the information necessary to plant and develop an organic garden. Study of soils, organic fertilizers, raised bed planting and other facets of organic gardening. (F)

HORT 23B - ORGANIC POLY CULTURE
Prerequisites: Hort 23A and/or consent of instructor
1 hour lecture, 6 hours laboratory weekly.
A continuation of Hort 23A and an introduction to warm season crops. The course deals with the use of structurally and genetically diverse plants and animals in setting up and maintaining a complex ecosystem for organic polyculture farming. (S)

LH 23 - LANDSCAPE GARDENING AND MANAGEMENT
Prerequisite: None
3 hours lecture weekly.
Planting and care of lawns, ground covers, flowers, trees and shrubs, including proper pruning and training; plant growth, weed, insect, and disease control; irrigation and fertilization principles; identification and uses of landscape plants; garden management problems of landscape properties, with field laboratory in proper care and use of garden equipment. This is primarily an evening course. Acceptable for credit at Cal Poly SLO. Parallels Env. Hort 10, UC Davis

LH 24 - LANDSCAPE DESIGN FOR HOMES
Prerequisites: None
3 hours lecture weekly.
Principles of landscape planning and design for residential properties, with emphasis on the location of lawns, trees, shrubs, walks, driveways, patios, planters, and other landscape structures for home and commercial landscaping; laboratory in practical drafting and landscaping design problems. This is primarily an evening course. Equivalent to OH 233, Cal Poly SLO

LH 25A-B - TURFGRASS MANAGEMENT
Prerequisites: None for 25A. 25A for 25B
3 hours lecture weekly.
LH 25A - Study of turfgrass, including varieties, their selection and use in lawns, public parks, public institutions, playgrounds, athletic fields, golf courses, and bowling greens. Identification of turfgrass, establishment of turf areas, soil preparation, irrigation, fertilization and special management factors. This is primarily an evening course.
LH 25B - Study of the following topics: equipment used with turfgrass management; soil aeration and thatch control; drainage requirements and the use of wetting agents; sprinkler system design and operation; record keeping; personnel management; public relations. This is primarily an evening course. Equivalent to OH 33, Cal Poly SLO

LH 26 - GARDEN INSECTS AND DISEASES AND THEIR CONTROL
Prerequisites: None
3 hours lecture weekly.
Study of the common garden insects and diseases. How to identify and how to control will be emphasized; also emphasis will be placed on biological controls where applicable. This course is designed for professional gardeners and home gardeners who desire a more thorough knowledge of the common garden insects and diseases found in Southern California. Primarily an evening course.

LH 27 - PLANT PROPAGATION
Prerequisites: None
3 hours lecture weekly.
Propagation of plant materials through seeds, cuttings, budding, grafting, division and air layering. An evening course primarily designed for homeowners.

ANTHROPOLOGY

Anth 1 - PHYSICAL ANTHROPOLOGY
Prerequisite: Satisfactory score on placement test.
3 hours lecture weekly.
Human biology and physical anthropology; facts and problems of human evolution; primatology; the origin and antiquity of man; fossil man; human variation; the biological background of culture; human biological-cultural adaptation. (F, S) Equivalent to Anthro 203, SFVSC Accepted for credit, UC (all branches)

Anth 2 - CULTURAL ANTHROPOLOGY
Prerequisite: Satisfactory score on placement test.
3 hours lecture weekly.
An understanding of man and his society with reference to the development and change of cultures; basic concepts and methods for analyzing society and culture illustrated with materials drawn largely from non-western societies. (F, S) Equivalent to Anthro 204, SFVSC Accepted for credit, UC (all branches)

Anth 3 - ARCHEOLOGY
Prerequisites: Satisfactory score on placement test
3 hours lecture weekly.
Historical development, theory and techniques of archeology. Study of cultures of the past through the excavation and analysis of their cultural remains. Selected topics in the archeology of both the New and the Old World. (F, S) Accepted for credit, UC (all branches)

Anth 4 - MEXICAN-AMERICAN CULTURE
Prerequisites: Satisfactory score on placement test or consent of instructor
3 hours lecture weekly.
The social and cultural heritage of the Mexican-American, emphasizing middle American Civilizations, and including the evolution of the Mexican-American from the Spanish conquest to present day America. The course is concerned with the contributions made by the Mexican-Americans to the United States, especially in the fine arts, literature, and orally transmitted heritage. (This course will count for elective credit in the Humanities area) (F, S) (Co-numbered MAS 2) Equivalent to Chicano Studies 100, SFVSC Accepted for credit, UC (all branches)

Anth SAB - ARCHEOLOGICAL FIELD METHODS
Prerequisites: Anth 3 or concurrent enrollment in Anth 3
1 hour lecture and 6 hours laboratory weekly.
A course in practical archeology for the student who desires to expand his existing knowledge of archeology field work. The emphasis in this course will be on actual site excavation and laboratory analysis. Accepted for credit, SFVSC Accepted for credit, UC (all branches)
Anth 6 - FIELD STUDIES IN PHYSICAL ANTHROPOLOGY  3 UNITS
Prerequisites: Anth 1 and consent of instructor
2 hours lecture and 3 hours laboratory weekly
Training in field problems in physical anthropology. Studies will be made on skeletal populations excavated from the local area or on living populations. A course in practical physical anthropology.
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Anth 7 - PEOPLES AND CULTURES OF THE WORLD  3 UNITS
Prerequisites: Satisfactory score on placement test
3 hours lecture weekly
An in-depth study of selected peoples and cultures from major culture areas of all continents. Emphasis will be on traditional cultures and changes induced by contact with the greater world.

Anth 22AB - DIRECTED STUDIES IN ANTHROPOLOGY  1-3/1-3 UNITS
Prerequisites: A course in the specific field and the consent of the instructor and Division Chairman
1-3 hours tutorial weekly
Designed for selected students who are interested in furthering their knowledge of Anthropology on an independent study basis. Assigned problems will involve library, laboratory and field work. Maximum of 3 units.
Accepted for credit, SFVSC; max. 3 units

ART

Art 1A - ART HISTORY  3 Units
Prerequisite: Satisfactory score on placement test.
3 hours lecture weekly.
Survey of the history of art of the western world from prehistoric times to the middle ages, including ancient, medieval, classic, early Christian and Byzantine. Emphasis on techniques in architecture, painting and sculpture as well as an examination of the key figures in art history.
Equivalent to Art 111A, SFVSC
Accepted for credit UC (all branches)

Art 1B - ART HISTORY  3 Units
Prerequisite: Satisfactory score on placement test.
3 hours lecture weekly.
Survey of the history of art of the western world from the middle ages to modern times; continued emphasis on techniques of producing art as well as an examination of the key figures in art history.
Equivalent to Art 111B, SFVSC
Accepted for credit UC (all branches)

Art 2 - ART APPRECIATION  3 Units
Prerequisite: Satisfactory placement score
3 hours lecture weekly
A one-semester survey to acquaint the student with the major periods and styles of art of the western world and to develop understanding of the visual arts.
Recommended for general education requirement. (F,S)
Equivalent to Art 105, SFVSC
Accepted for credit, UC (all branches)

Art 3 - MODERN ART FORMS  3 Units
Prerequisite: Art 2
3 hours lecture weekly
Modern art forms builds upon the foundation of art appreciation to investigate many of the movements, events and personalities of twentieth-century painting, sculpture and architecture. Special emphasis is placed on current developments and exhibitions.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Art 4A-B-C - COLOR AND DESIGN  2-2-2 Units
Prerequisites: Art 4A for Art 4B; Art 4B for Art 4C
or permission of instructor
1 hour lecture, 3 hours studio weekly
Art 4A: A basic course providing background in the use of design principles; specific problems in line, shape, texture and form. Emphasis on color theory and its practical applications. (F)
Equivalent to Art 140A, SFVSC
Accepted for credit, UC (all branches)

Art 4B: The study of color and design as it is used in the art of painting. Methods of employing these ingredients are also considered in many of the fields, including commercial usage. (S)
Equivalent to Art 140B, SFVSC
Accepted for credit, UC (all branches)

Art 4C: The use of various materials such as wood, metal, cardboard, plaster, weights to form aesthetic designs in actual space rather than simulated pictorial space. (F)
Equivalent to Art 240, SFVSC
Accepted for credit, UC (all branches)
Art 7 - APPLIED COLOR AND DESIGN  2 Units
Prerequisites: Consent of Instructor
6 hours laboratory weekly
Study of art forms with stress on an architectural form, interior design, credit, etc.; creative art experience in various media. Not designed for art majors. (SUMMER ONLY)
Accepted for credit, UC (all branches)

Art 8A-B - BEGINNING CERAMICS  2-2 UNITS
Prerequisites: None for 8A; 8A for 8B
6 hours laboratory weekly
Practice in the technique of elementary clay construction including coil, slab method, and introduction to throwing on the potter's wheel; experimentation in sculptural forms and the development of glazes. $15 fee for tools and clay.
8A: Equivalent to Art 267, SFVSC
Accepted for credit, UC (all branches)
8B: Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Art 9A-B - CERAMIC DESIGN  2-2 UNITS
Prerequisites: Art 8A, Art 8B and Art 4A
6 hours laboratory weekly
An advanced study in ceramics with emphasis on exploration of clay bodies, glaze materials, glaze calculations, firing, and independent projects. This course is designed to develop growth and individual creative expression.

Art 12A-B - DRAWING AND COMPOSITION  2 Units
Prerequisites: None for Art 12A; Art 12A for Art 12B
6 hours studio weekly.
Art 12A: The first semester emphasizes the drawing of basic forms such as still life and fundamental shapes.
Equivalent to Art 124A, SFVSC
Accepted for credit, UC (all branches)
Art 12B: Original problems and experimental design including the human figure. Particular emphasis upon the fundamental means of pictorial composition.
Equivalent to Art 124B, SFVSC
Accepted for credit, UC (all branches)

Art 13A-B - LIFE DRAWING  2-2 Units
Prerequisite: Art 12A for Art 13A; Art 13A for Art 13B
or permission of instructor.
6 hours studio weekly
Art 13A: Drawing the human figure, beginning with skeletal structure, using many media including charcoal, pencil, pen and ink, conte crayon, and pastels. Emphasis on structure, proportion, form and composition; practice in the use of linear and tonal concepts. (F)
Equivalent to Art 230, SFVSC
Accepted for credit, UC (all branches)
Art 13B: Drawing the human figure from the live model; freedom of expression. (S)
Accepted for credit; SFVSC
Accepted for credit, UC (all branches)

Art 15A-B - BEGINNING PRINTMAKING  2-2 UNITS
Prerequisites: Art 4A
6 hours studio weekly
Exploration of the printmaking media available to the artist. Work will include relief (wood block and linocut) as well as intaglio (etching, engraving, aquatint, etc.)

Art 16A-B - PAINTING  2 Units
Prerequisites: Art 4B and Art 12B or consent of instructor;
Art 16A for Art 16B
6 hours studio weekly
Art 16A: An intermediate course pertaining to the nature of structural and expressive values in contemporary painting; practice in the building of form, control of pictorial order, and the use of color and light. (F)
Equivalent to Art 227A, SFVSC
Accepted for credit, UC (all branches)
Art 16B: Emphasis on technical competence and individual concepts; experimentation with traditional and newer painting materials. (S)
Equivalent to Art 227B, SFVSC
Accepted for credit, UC (all branches)

Art 17 - LANDSCAPE PAINTING  2 Units
Prerequisites: Art 4A-B or Art 12A-B; or permission of instructor
6 hours studio weekly
Painting from nature out of doors in various media, such as acrylics, oils, water color, and pastels.
Accepted for credit; SFVSC
Accepted for credit, UC (all branches)
Art 18 - WATER COLOR
Prerequisites: Art 4A, Art 12A
3 hours lecture weekly
An exploration of the water color medium, emphasizing the development of a personal fluid painting style in both abstract and realistic subject matter.

Art 19A-B - SCULPTURE
Prerequisites: None for 19A, 19A for 19B
6 hours studio weekly.
19A - A studio course in the fundamentals of sculpture, exploring historical and aesthetic aspects of sculpture in conjunction with practical project experience. Media: cardboard, clay, plaster, wood, wire, metal and plastics.
Equivalent to Art 235, SFVSC
Accepted for credit, UC (all branches)
19B - Advanced problems in sculptural forms with emphasis on individual projects, evaluation, growth, and direction. Media: same as 19A and other media with consent of the instructor.
Accepted for credit, UC (all branches)

Art 22A-B - DIRECTED STUDIES IN ART
1.3/1.3 UNITS
A course in the specific field and the consent of the instructor and Division Chairman.
1.3 hours tutorial weekly
Designed for selected students who are interested in furthering their knowledge of art on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units. (F, S)
Max 3 units credit, SFVSC
Maximum credit, one course, UC (all branches)

BEHAVIORAL SCIENCES

BGS 1 - INTRODUCTION TO THE BEHAVIORAL SCIENCES
6 UNITS
Prerequisites: Satisfactory score on placement test
6 hours lecture weekly
An interdisciplinary approach to the study of the subject matter of psychology and sociology. A course designed to introduce the non-major student in psychology and sociology to these behavioral sciences in such a way as to compare and contrast the two disciplines. A course created to explore the motives, emotions, perceptions, attitudes, personality and intellectual development of the human being (3 units Psych 2 and 3 units of Soc 1)

BGS 2 - INTERPERSONAL BEHAVIOR
6 UNITS
Prerequisites: Behavioral Science 1, or Soc 1 or Psych 1A or 2
6 hours lecture weekly
A study of the overlapping portions of psychology and sociology which is concerned with describing, explaining and understanding human relationships, social adaptability, and the modification of the individual through interaction with others. Topics of study include small group formation, group dynamics, attitude formation and change, leadership, power, social perception, social determinants of personality, group processes in education and mental health and specific social problems. (3 units Psych 3 and 3 units Psych 5 or Soc 5)

BIOLICAL SCIENCES

An 1 - GENERAL HUMAN ANATOMY
4 Units
Prerequisites: Bio 1 or Bio 2A or equivalent
2 hours lecture, 6 hours laboratory weekly
The functional anatomy of human organs and organ systems with some histological studies, using non-human mammals for dissection, but with emphasis on the human structure and demonstrations on cadaver.
Equivalent to Biology 211, 212, SFVSC
Accepted for credit, UC (all branches)

Micro 1 - PRINCIPLES OF MICROBIOLOGY
5 UNITS
Prerequisites: Chem 12, and Bio 2A (concurrent enrollment is acceptable)
3 hours lecture, 6 hours laboratory weekly
Bacteria, algae, fungi, Rickettsia, viruses and protozoa; emphasis on bacterial morphology, anatomy, staining, classification, metabolism and growth, and effects of physical and chemical agents on bacteria; applied microbiology with some emphasis on pathogenic forms and immunity.
Equivalent to Biology 215, SFVSC
Accepted for credit, UC (all branches)

Biol 1 - PRINCIPLES OF BIOLOGY
4 Units
Prerequisites: Satisfactory score on placement test
3 hours lecture, 3 hours laboratory weekly
Introductory biology for students not majoring in the natural sciences. Emphasis on basic concepts, especially genetics, evolution and ecology. Particular attention will be given to the implications of biological ideas in human affairs. (F)
Equivalent to Biol 100, SFVSC
Accepted for credit, UC (all branches)

Biol 2A-B - GENERAL BIOLOGY
4.4 Units
Prerequisites: Satisfactory score on placement test. 2A for 2B.
Chem 1A is recommended and can be taken concurrently.
3 hours lecture and 3 hours laboratory weekly.
This is a full year course for those wishing two semesters of biology, and for the science and preprofessional majors.
Biol 2A - This general biology course emphasizes the cell and the organism, with particular attention to the structure and metabolism of the vertebrates and man.
Equivalent to Biology 150, 150L, SFVSC
Accepted for credit, UC (all branches)
Biol 2B - This course emphasizes the population and the community with special reference to ecosystems, biotic communities, heredity and evolution. (F, S)
Equivalent to Biology 151, 151L, SFVSC
Accepted for credit, UC (all branches)

Biol 3A-B - MARINE BIOLOGY
4.4 Units
Prerequisites: Biol 1 or 2A for 3A, 3A for 3B
3 hours lecture, 3 hours laboratory weekly
Biol 3A: Lecture and laboratory course with emphasis upon physical oceanography and the invertebrate life forms in the marine environment.
Biol 3B: An ecological study of marine organisms with emphasis on the higher forms of marine life. A study of the vocational and recreational utilization of the oceans with emphasis on man's effect upon the marine environment.
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Biol 4A - WILD ANIMAL BEHAVIOR
3 UNITS
Prerequisites: One semester of Biology and one semester of Psychology, Consent of instructor
2 hours lecture, 3 hours laboratory weekly
An introduction to wild animal behavior for those interested in working professionally in the field of wild animal training and research. Lectures will be held at Africa USA in Fillmore.

Biol 4B - WILD ANIMAL TRAINING
4 UNITS
Prerequisites: Biol 4A and consent of the instructor
1 hour lecture, 9 hours laboratory weekly
Students will proceed with the application of techniques observed in Biol 4A. Each student will work with professional trainers in preparing animals for possible exhibition. Proper care of animals in all respects will be emphasized.

Biol 5A-B - ANIMAL TRAINING
4.4 Units
Prerequisites: Biology 4A and consent of instructor
1 hour lecture, 9 hours laboratory weekly
Students will proceed with the application of techniques observed in Biol 4A. Each student will train an animal or animals for possible exhibition. Proper care of animal in all respects will be emphasized.

Biol 10 - SEASHELL LIFE
2 Units
Prerequisites: None
1 hour lecture, 3 hours laboratory weekly
An overview of the marine environment of Southern California with the study of the distribution and zonation of common seashore plants and animals.
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Biol 14 - NATURAL HISTORY OF THE CONEJO
3 UNITS
Prerequisites: None
3 hours lecture - walking weekly
A study of the natural features, animals and plants of the Conejo Valley. The local ecological communities are visited and described. Some attention is given to cultivated areas. The course may be given in other areas from time to time with a change in the title to indicate the location of the study.

Biol 22A-B - DIRECTED STUDIES IN BIOLOGY
1-3/1 Units
Prerequisite: A course in the specific field with a recommending grade and consent of instructor and Division Chairman.
1-3 hours tutorial weekly
Designed for selected students who are interested in furthering their knowledge of biology on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.
Accepted for credit, SFVSC.
3 units maximum
Accepted for credit, UC (all branches) - one course

Biol 49A-B - DIRECTED WORK EXPERIENCE IN BIOLOGY
1-3 Units
Prerequisites: Consent of instructor and Division Chairman
5-15 hours laboratory weekly
On-the-job training for students under the supervision of instructor and employer. An introduction to methods, equipment and working conditions existing in specific fields of biology technology.
**Bot 1 - GENERAL BOTANY**  
Prerequisites: Satisfactory score on placement test.  
3 hours lecture, 6 hours laboratory weekly.  
Introductory study of morphology, anatomy and physiology of seed plants; emphasis on such biological principles as physical and chemical aspects of life, cellular organization, reproduction, and heredity. (F)  
Accepted for Gen. Ed. Science, SFVSC  
Accepted for credit, UC (all branches)

**Bot 3A-B - PLANT IDENTIFICATION**  
Prerequisites: One semester of Biology  
1 hour lecture, 3 hours laboratory weekly  
A field course in the identification of plants. The fall semester deals with trees and fall flowers. The spring semester deals with ferns and spring flowers. A basic part of the course concerns the principles of taxonomy. Local natural biotic communities are studied together with the horticultural species, both native and exotic.  
Accepted for credit, SFVSC  
Accepted for credit, UC (all branches)

**Phys 1 - INTRODUCTION TO HUMAN PHYSIOLOGY**  
Prerequisites: Chem 12 or equivalent and Biol 2A  
3 hours lecture, 3 hours laboratory weekly  
Functioning of the human organism: consideration of organ systems and basic structure as necessary to understand the physiological principle involved; laboratory experiments and/or demonstrations to illustrate basic physiological principles, techniques and instruments.  
Equivalents to Biology 281, 282, SFVSC  
Accepted for credit, UC (all branches)

**ZOO 3 - BIOLOGY OF THE VERTEBRATES**  
Prerequisites: Biol 2A or consent of the instructor  
2 hours lecture, 3 hours laboratory weekly  
Studies of local vertebrates (excluding fishes) emphasizing basic ecological relations and natural history. Lab to include field trips, identification and experimentation in behavior and ecology.  
Accepted for credit, SFVSC  
Accepted for credit, UC (all branches)

**BROADCASTING**  
**Broad 1 - MASS COMMUNICATIONS**  
Prerequisites: None  
3 hours lecture, 1 hour laboratory weekly  
This course will acquaint the student with the origins, development and contemporary role of newspapers, magazines, cinema, radio, TV, and related fields such as advertising and public relations. Will survey the history and the application of mass communications. (F)  
Accepts for credit, SFVSC  
Accepted for credit, UC (all branches)

**Broad 2 - BROADCAST STUDIO OPERATION**  
Prerequisites: Broad 1 or concurrent with Broad 1  
2 hours lecture, 3 hours laboratory  
A technical theory course in basic television circuits, cameras, control board, video-tape recorders, lighting, microphones, and overall television station operation. Some practical experience in the various aspects of production, explanation of program patterns, studio procedures, use of equipment, production of programs and radio television acting.  
Accepted for credit, SFVSC

**Broad 3 - TELEVISION PRODUCTION WORKSHOP**  
Prerequisites: Broad 1 and 2  
6 hours laboratory weekly  
This course involves intermediate work in production, camera work, technical direction, lighting, etc. The creation of new program concepts and types is stressed. Each student is responsible for producing his own half-hour experimental TV program. (F)  
Equivalent to RTVF 140, SFVSC

**Broad 4 - TELEVISION DIRECTING**  
Prerequisites: Broad 1, 2, and 3  
6 hours laboratory weekly  
This course in telecasting involves advanced work in directing involving direction of special programs for video-taping. Creativity will be emphasized along with coordination of all aspects of production.  
Accepted for credit, SFVSC
Broad 5 - RADIO-TELEVISION WRITING
Prerequisites: English 1A or Humanities 1A or consent of instructor.
2 hours lecture weekly.
This course deals with the preparation and analysis of dramatic scripts, program formats, public service announcements, local news, commercials, continuity, discussion programs, special events, talks and interviews. Training is given in the fundamentals of script format, professional methods, and the ethics and restrictions involved in broadcasting media. (Co-number English 11) (S)
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Broad 6A-B - FCC LICENSE REVIEW
Prerequisites: None
3 hours lecture weekly.
This course will review basic electronics especially pertaining to broadcasting to prepare the student for the series of Federal Communications Commission examinations eventually leading to the FCC First Class Radiotelephone Operator’s License. (Co-number: ET 6A-B) (6A-F, 6B-S)
Accepted for credit, SFVSC

Broad 7 - RADIO PRODUCTION WORKSHOP
Prerequisites: Broad 1 or concurrent enrollment
2 hours lecture, 3 hours laboratory weekly.
Class offers integrated work in various radio broadcasting functions. Included are announcing, acting, disc jockeying, basic writing, program direction, program production, advertising, radio interviewing, and station operations.
Equivalent to RTV 130, SFVSC

Broad 8 - VOICE AND DICTATION
Prerequisites: None
3 hours lecture weekly.
Individual speech improvement, instruction and practice in correct breathing, voice control and diction. The study of correct pronunciation, enunciation and voice production, including the study of dialects, foreign and regional. This course is designed for students in drama, forensics, broadcasting or education (Co-number Speech 3, THA 3)
Equivalent to Drama 106, SFVSC

Broad 22A-B - DIRECTED STUDIES IN BROADCASTING
Prerequisites: A course in the specific field and the consent of the instructor and Division Chairman
1-3/1-3 hours
1.3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of broadcasting on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.

BUSINESS

Bus 1A-8 - ACCOUNTING PRINCIPLES
Prerequisites: Satisfactory math score or completion of Bus 3 or equivalent. Grade of C or better in 1A for 1B.
3-3 units
2 hours lecture weekly.
Basic principles of accounting as a foundation for advanced study, and as a vocational skill; the accounting cycle, voucher system; problems involved in accounting for notes, expenses, assets, payroll, and for sole proprietorship; partnership; corporation; or manufacturing enterprise; financial statement analysis; primarily for business administration majors. (F,S)
Equivalent to Bus 202A-B, SFVSC
Accepted for credit, UC (all branches)

Bus 2 - ACCOUNTING - DATA PROCESSING LAB
Prerequisite: Concurrent or prior enrollment in Bus 1A-1B
3 hours laboratory weekly.
A lab course where students will have the opportunity to complete a realistic project set using conventional means, and data processing techniques. The student will be exposed to solutions of accounting problems by use of current data processing techniques. One (1) semester required of all students enrolled in either Bus 1A or 1B

Bus 3 - APPLIED ACCOUNTING
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly.
Fundamentals of double-entry bookkeeping theory and application; the bookkeeping cycle and its application to sole proprietorship in trading concerns and service enterprises, financial statements; accounting for notes and securities; banking and petty cash transactions. (F,S)
Not open to students who have passed Bus 1A.

Bus 7 - CALCULATING MACHINES
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly.
Development of skill in the operation of the familiar make of rotary calculators with problems to emphasize the arithmetic of percentage and interest; operation of the 10-key adding machine by the "touch" method. Practice on the rotary calculators and electronic calculators in the solution of more advanced problems; operation of the key-driven calculator by the “touch” system. (F,S)
Equivalent to Bus 212, SFVSC

Bus 8 - PERSONAL TYPING
Prerequisites: None
1 1/2 units
1 hour lecture weekly.
Two semesters required of all students in business, economics and data processing. A series of informative lectures by leaders in business, government and industry. (F,S)

Bus 11A-B - BUSINESS LECTURES
Prerequisites: None
1 1/2 units
1 hour lecture weekly.
Two semesters required of all students in business, economics and data processing. A series of informative lectures by leaders in business, government and industry. (F,S)

Bus 11A - BEGINNING TYPING
Prerequisites: None
2 hours lecture, 2 hours laboratory weekly.
Mastery of the keyboard, rhythmic writing, syllable, word and sentence practice; practice in simple business letters and tabulations; attainment of minimum speed of 35 words per minute. Manual machines. (F,S)
Equivalent to Bus 101, SFVSC

Bus 11B - INTERMEDIATE TYPING
Prerequisite: Typing speed of 35 wpm, or C or better from a previous typing class.
2 hours lecture, 3 hours laboratory weekly.
Skill building in typing office problem materials to meet business production standards. Individual speed improvement requirements set. (F,S)

Bus 12A - ADVANCED TYPING
Prerequisite: Grade of C or better in Bus 11B, or speed of 50 wpm.
2 hours lecture, 3 hours laboratory weekly.
Advanced typewriting using electric typewriters with emphasis on business forms, multiple-page manuscripts, and intensive speed and accuracy development. (F,S)
Equivalent to Bus 201, SFVSC

Bus 12B - PRODUCTION TYPING
Prerequisite: Grade of C or better in Bus 12A, or speed of 60 wpm.
2 hours lecture, 3 hours laboratory weekly.
Emphasis on skill building on office-quality production materials. Individual speed improvement requirements set. Electric machines. (F,S)

Bus 14 - PROFESSIONAL SECRETARY
Units upon completion of one year program
1 year certificate program
Prerequisites: Typing of 50 wpm, Shorthand speed of 80 wpm 20 hours weekly.
A two semester course for entering freshmen with previous secretarial training. Includes instruction in shorthand, typewriting, accounting, filing, secretarial practice, office machines, work experience, apparel selection and grooming and physical education. Specialization in legal, medical, technical, and educational secretarial fields will be offered in the second semester.

Bus 15 - SECRETARIAL PROCEDURES
5 units
Prerequisites: Minimum typing speed of 40 wpm. Shorthand is recommended
2 hours lecture, 6 hours laboratory weekly.
Instruction and practice in performing various office duties including methods of handling of mail, arranging itineraries, procuring office supplies, using the telephone, and improving human relations. Theory and practice in the selection and operation of dictation and transcription machines, duplicating machines, copying machines, and proportional spacing typewriters. Field trips. (S)

Bus 16 - OFFICE MACHINES
Prerequisite: Bus 11A or equivalent
2 hours lecture, 3 hours laboratory weekly.
Course provides students with instruction in the operation of the following equipment: spirit duplicators, mimeographs, dry copiers, collator, proportioning graticule typewriters, mimeoscope, and thermofax. (F)
Accepted for credit, SFVSC
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 19</td>
<td>RECORDS MANAGEMENT</td>
<td>2</td>
<td>None</td>
<td>1 hour lecture and 3 hours laboratory weekly. Study of methods and systems of storing and retrieving information. Gain insight into related management functions. (F)</td>
</tr>
<tr>
<td>Bus 20A</td>
<td>BEGINNING SHORTHAND</td>
<td>4</td>
<td>Bus 11A or typing speed of 40 wpm. 4 hours lecture, 1 hour laboratory weekly. Basic principles of reading and writing shorthand. Thorough study of Gregg theory. Diamond Jubilee Series. Students should attain a minimum speed of 60 wpm. Extensive dictation of practice material. (F,S) Equivalent to Bus 1-2G, SFVSC</td>
<td></td>
</tr>
<tr>
<td>Bus 20B</td>
<td>INTERMEDIATE SHORTHAND</td>
<td>4</td>
<td>Grade of C or better in Bus 20A, or one year of high school shorthand, and typing speed of 50 wpm. 4 hours lecture, 1 hour laboratory weekly. Course comprises intensive review of shorthand principles, building dictation speed with unpracticed material. Students should attain a minimum speed of 80 wpm. (F,S)</td>
<td></td>
</tr>
<tr>
<td>Bus 21</td>
<td>SPEED BUILDING AND TRANSCRIPTION</td>
<td>5</td>
<td>Two semesters of college shorthand (with grades of C or better) or 2 years of high school shorthand and one semester of college shorthand. 5 hours lecture, 1 hour laboratory weekly. Increased speed on sustained dictation developed through use of expert shortcuts and methods. Further development of accuracy in taking dictation to meet office standards. Specialization in vocabularies for medical and legal offices. Students should attain a minimum speed of 120 wpm. (F,S)</td>
<td></td>
</tr>
<tr>
<td>Bus 22A-B</td>
<td>DIRECTED STUDIES IN BUSINESS</td>
<td>1-3/1-3</td>
<td>None</td>
<td>1-3 hours tutorial weekly. Designed for selected students who are interested in furthering their knowledge of business on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.</td>
</tr>
<tr>
<td>Bus 23</td>
<td>REFRESHER SHORTHAND</td>
<td>1</td>
<td>Previous training in shorthand 2 hours lecture, 1 hour laboratory weekly (for 8 weeks). This course is designed as a quick, yet thorough, review of Gregg Shorthand for those who have previously studied the system. Students must have had a complete course in Gregg. Course reviews all basic theory and transcription principles. Student may register for 2 eight-week sessions if beneficial. (F,S)</td>
<td></td>
</tr>
<tr>
<td>Bus 30</td>
<td>INTRODUCTION TO BUSINESS PRINCIPLES</td>
<td>3</td>
<td>None</td>
<td>3 hours lecture weekly. Purpose, organization and terminology of business, including such topics as management, insurance, budgeting and accounting, business law, organization, marketing and data processing. (F,S)</td>
</tr>
<tr>
<td>Bus 31</td>
<td>BUSINESS ORGANIZATION AND MANAGEMENT</td>
<td>3</td>
<td>None</td>
<td>3 hours lecture weekly. Basic functions of a business organization and manager's responsibilities in planning organizing, directing, controlling, coordinating and executing the organizational objectives. (F,S)</td>
</tr>
<tr>
<td>Bus 32</td>
<td>SMALL BUSINESS MANAGEMENT</td>
<td>1.5/3</td>
<td>None</td>
<td>3 hours lecture weekly (8-16 weeks). The role of the small businessman in the American economy. Training in performing the various functions of business including setting up, staffing and organizing, advertising, selling, budgeting, and personnel for retail stores, service firms and industrial organizations. (F,S)</td>
</tr>
<tr>
<td>Bus 33A</td>
<td>BUSINESS LAW I</td>
<td>3</td>
<td>None</td>
<td>Satisfactory score on placement test. 3 hours lecture weekly. Fundamental principles of law as they relate to business transactions. Origins of legal system, law of contracts, enforceable agreements, real and personal property law, bailments, securities, transactions, court system; case approach emphasized. (F,S) Equivalent to Bus 280, SFVSC</td>
</tr>
<tr>
<td>Bus 33B</td>
<td>BUSINESS LAW II</td>
<td>3</td>
<td>None</td>
<td>Satisfactory score on placement test. 3 hours lecture weekly. Principles of law as applied to employer-employee relationships, agency-legal relationships; rights and liabilities of various business organizations, and negotiable instruments; case approach emphasized. (S) Accepted for credit, SFVSC</td>
</tr>
<tr>
<td>Bus 34</td>
<td>INCOME TAX LAW</td>
<td>2</td>
<td>None</td>
<td>2 hours lecture weekly. This course is designed to help students understand principles of tax laws, court decisions, and administrative rulings as they apply to individual income taxes and preparation of returns. California income tax law is also discussed. (F)</td>
</tr>
<tr>
<td>Bus 35</td>
<td>SALESMANSHIP</td>
<td>3</td>
<td>None</td>
<td>3 hours lecture weekly. Elements of effective salesmanship; sales personality, development of the sales plan, securing prospects, counseling buyers, the demonstration, handling objections, self-management, and public relations.</td>
</tr>
<tr>
<td>Bus 36</td>
<td>RETAIL MERCHANDISING</td>
<td>3</td>
<td>None</td>
<td>3 hours lecture weekly. Merchandise control and budgeting, location, equipment, advertising, discount stores, shifts in consumption patterns, credits and collections, and store services.</td>
</tr>
<tr>
<td>Bus 37</td>
<td>MARKETING</td>
<td>3</td>
<td>None</td>
<td>3 hours lecture weekly. Marketing management from the viewpoint of the manager who researches and plans the product, organizes his staff, and controls the sales, advertising, and channels of distribution; case problem approach emphasized.</td>
</tr>
<tr>
<td>Bus 38</td>
<td>ADVERTISING</td>
<td>3</td>
<td>None</td>
<td>3 hours lecture weekly. Introduction to the field of advertising. Media, budgeting, market research, layout, copywriting, advertising agencies. Student receives actual practice in the planning of an advertising campaign.</td>
</tr>
<tr>
<td>Bus 39</td>
<td>BUSINESS COMMUNICATIONS</td>
<td>3</td>
<td>None</td>
<td>2 hours lecture weekly. Student is given training in the development of business letters and reports; persuasion and training in correct English usage in oral and written business communication.</td>
</tr>
<tr>
<td>Bus 40</td>
<td>PERSONAL FINANCE</td>
<td>3</td>
<td>None</td>
<td>3 hours lecture weekly. Course designed to improve student's management of personal financial affairs. Problem solving and practical experience in the development of an individual's budgets, investments, insurance, loans, taxes, social security, etc.</td>
</tr>
<tr>
<td>Bus 42</td>
<td>ECONOMICS OF ENTERPRISE</td>
<td>3</td>
<td>None</td>
<td>3 hours lecture weekly. The course explores important concepts of business and economics by applying them to today's events in the world, the U.S. and Ventura County. Ideas about profits, supply and demand, money, insurance, costs, pricing, and management will be examined. Emphasis will be placed on the practical use of these concepts in one's everyday life. This class might be called &quot;Economics of Business.&quot; (Co-numbered Econ 42.)</td>
</tr>
<tr>
<td>Bus 44</td>
<td>BUSINESS MATH</td>
<td>3</td>
<td>MATH 9B or equivalent (may be taken concurrently)</td>
<td>3 hours lecture weekly. A review of fundamental arithmetic and algebraic processes with application to business problems. Fractions, decimals, skills in areas of mark-up, discounts, interest, installment debt and other business practices are presented. NOTE - this meets the college math requirement. (F,S) (Co-number: Math 44)</td>
</tr>
<tr>
<td>Bus 49A-B</td>
<td>DIRECTED WORK EXPERIENCE IN BUSINESS</td>
<td>1-3</td>
<td>None</td>
<td>Consent of instructor and Division Chairman. 5-15 hours laboratory weekly. On-the-job training for students under the supervision of instructor and employer. An introduction to business policies, program practices, and procedures in specific business and/or government fields. Maximum of 6 units.</td>
</tr>
<tr>
<td>Bus 50</td>
<td>ELEMENTS OF SUPERVISION</td>
<td>3</td>
<td>None</td>
<td>3 hours lecture weekly. A basic course covering in general terms the total responsibilities of a supervisor; organization, duties and responsibilities, human relations, grievances, training, rating promotion, quality and quantity control.</td>
</tr>
</tbody>
</table>
Bus 51 - PERSONNEL MANAGEMENT
Prerequisites: Bus 50 or consent of instructor.
3 hours lecture weekly.
Personnel management as a staff function in the process of manpower administration in the organization. Policies and methods of obtaining and developing an efficient work force, including manpower planning, recruitment, selection, placement, training, management development, performance, evaluation, compensation practice, safety, benefits, and administration.

Bus 52 - LABOR MANAGEMENT RELATIONS
Prerequisites: Bus 50, Bus 51 or consent of instructor.
3 hours lecture weekly.
History and development of the labor movement, development of labor legislation - the National Labor Relations Acts, the Wagner Act, the Taft-Hartley Act; supervisor's responsibility for good labor relations, union contract and grievance procedure.

Bus 53 - COST AND JOB CONTROL FOR SUPERVISORS
Prerequisites: Bus 50 or consent of instructor.
3 hours lecture weekly.
Determination of costs in industry; cost control and related factors, material, waste, waste, quality control, quantity control, control of time, supervisor's responsibility for costs. Determination of job methods control and improvements; basic principles of work simplification including time and motion study techniques.

CHEMISTRY

Chem 1A - GENERAL CHEMISTRY
Prerequisites: High School Chemistry, or Chem 12, and Math 3 or equivalent.
3 hours lecture, 6 hours laboratory weekly.
This course is required of all majors in chemistry and most other fields of science and technology, and is also transferable as a laboratory science course or general education requirement for majors in any field.
Lecture: This course will describe matter in terms of composition and structure from the viewpoint of the atomic theory, atom structure and atom bonding. Properties of matter will be considered from a kinetic molecular theory, gas laws, colligative properties, and nuclear chemistry.
Laboratory: Some basic arts and techniques of Experimental Investigation will be explored. Spectroscopy, Gravimetric Volumetric Analysis, Stoichiometry, Qualitative Analysis. Equivalent to Chem 101, SFVSC
Accepted for credit, UC (all branches)

Chem 1B - GENERAL CHEMISTRY
Prerequisite: Chem 1A
3 hours lecture, 6 hours laboratory weekly.
Lecture: Molecular interactions, reaction dynamics, thermochemistry, and thermodynamics, chemical, physical and solution equilibrium, electrochemistry. Why and how chemical reactions occur. Systematic descriptive chemistry.
Laboratory: Volumetric and gravimetric analysis Kinetic, electro-chemical determinations, calorimetry, equilibrium, acid-base reactions. (F, S)
Equivalent to Chem 102, SFVSC
Accepted for credit, UC (all branches)

Chem 1AE - GENERAL CHEMISTRY FOR ENGINEERING
Prerequisites: High School Chemistry or Chem 12 or equivalent. Math 3 or equivalent.
3 hours lecture, 3 hours laboratory weekly.
This course is required of all engineering majors. The lecture is continuous with 1A. The laboratory is designed for engineering students only.
Lecture: This course will describe matter in terms of composition and structure from the viewpoint of the atomic theory, atom structure and atom bonding. Properties of matter will be considered from a kinetic molecular theory, gas laws, colligative properties, and nuclear chemistry.
Laboratory: Volumetric analysis, stoichiometry. Use of the balance, error analysis, properties of various chlorine, sulfur and nitrogen oxidation states. Equivalent to Chem 101, SFVSC
Accepted for credit, UC (all branches)

Chem 1Be - GENERAL CHEMISTRY FOR ENGINEERING
Prerequisites: Chem 1A
3 hours lecture, 3 hours laboratory weekly.
Lecture: Molecular interactions, reaction dynamics, thermochemistry, and thermo-dynamics, chemical, physical and solution equilibrium, electrochemistry. Why and how chemical reactions occur. Systematic descriptive chemistry.
Laboratory: Volumetric and gravimetric analysis, reaction rate experiments, electrochemical determinations, calorimetry, qualitative analysis. Equivalent to Chem 102, SFVSC
Accepted for credit, UC (all branches)

Chem 5 - QUANTITATIVE ANALYSIS
4 Units
Prerequisites: Grade of C or better in Chem 1A-B or equivalent or consent of instructor
2 hours lecture, 6 hours laboratory weekly.
The course will consider analytical chemical techniques. The emphasis will be in instrumental analytical procedures. The analysis will be Gravimetric, Volumetric, Potentiometric and Spectrophotometric. (F)
Equivalent to Chem 211, SFVSC
Accepted for credit, UC (all branches)

Chem 7A-B - ORGANIC CHEMISTRY
5-5 Units
Prerequisites: Grade of C or better in Chem 1A-B or consent of instructor
3 hours lecture, 6 hours laboratory weekly.
A thorough study of organic chemistry. Emphasis is placed on application of modern principles to a study of the structure, reactivity and synthesis of aliphatic and aromatic compounds. Techniques, preparation and identification of organic chemicals using modern instrumental methods. Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Chem 10A - DESCRIPTIVE CHEMISTRY
1 Unit
Prerequisites: Consent of instructor
16 hours lecture
A description of the basic principles of chemistry. Emphasis will be placed on the oxidation of materials including chemical rates and heats of reaction.

Chem 10B - DESCRIPTIVE CHEMISTRY
1 Unit
Prerequisites: Chem 10A or consent of instructor
16 hours lecture
A description of the basic principles of chemistry. Emphasis will be placed on the oxidation of materials including chemical rates and heats of reaction.
### CHEMISTRY

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 10C - DESCRIPTIVE CHEMISTRY</td>
<td>A description of the basic principles of chemistry. Emphasis will be placed on the structure and reactivity of dangerous chemicals. Included will be radioactive materials, explosives and flammable materials.</td>
<td>1 Unit</td>
<td>Chem 10B, 10A or consent of instructor</td>
</tr>
<tr>
<td>Chem 12 - ELEMENTARY CHEMISTRY I</td>
<td>Prerequisite: Math 1 recommended 3 hours lecture, 3 hours laboratory weekly. A course designed for non-science majors, emphasizing principles of inorganic chemistry, structure of atoms and molecules, periodic table and chemical calculations. This course fulfills prerequisite requirements for Chem 1A. Equivalent to Chem 103, SFVSC.</td>
<td>4 Units</td>
<td></td>
</tr>
<tr>
<td>Chem 13 - ELEMENTARY CHEMISTRY II</td>
<td>Prerequisite: Chem 12 3 hours lecture, 3 hour laboratory weekly. A continuation of Chem 12. A course emphasizing properties of solution, chemical equilibrium, acids and base, and reaction kinetics. The laboratory experiences are designed for practical applications in Home Economics, Agriculture and Environmental Chemistry. Equivalent to Chem 104, SFVSC.</td>
<td>4 Units</td>
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</tr>
<tr>
<td>Chem 22A-B - DIRECTED STUDIES IN CHEMISTRY</td>
<td>Prerequisites: A course in the specific field and the consent of the instructor and Division Chairman. 1-3 hours tutorial weekly. Designed for selected students who are interested in furthering their knowledge in chemistry on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.</td>
<td>1-3 Units</td>
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### CINEMATOGRAPHY

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Cine 1 - HISTORY OF THE MOTION PICTURE</td>
<td>Prerequisites: None 2 hours lecture, 3 hours laboratory weekly. An historical and critical survey, with examples of the motion picture both as a developing art form and as a medium of mass communication.</td>
<td>3 Units</td>
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<tr>
<td>Cine 2AB - ART AND TECHNIQUES OF FILM</td>
<td>Prerequisites: Suggested - Journ 1B/Broad 1, Photo 1A and Cine 1 3 hours lecture weekly. A basic course presenting techniques of motion picture photography, script writing, and film production. Several areas are covered including documentary, educational, and expresive modes. Productions in both super 8 and 16 mm.</td>
<td>3-3 Units</td>
<td></td>
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### DATA PROCESSING

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td><em>DP 1 - INTRODUCTION TO DATA PROCESSING</em></td>
<td>Prerequisites: None. (For Data Processing majors only.) 3 hours lecture weekly. Basic methods, techniques and systems of data processing, development of data processing functions as applied in manual, mechanical, electro-mechanical and electronic data processing systems. (F,S) Equivalent to DP 211, Cal Poly Pomona Accepted for credit at UC (all branches) Accepted for credit, SFVSC.</td>
<td>3 Units</td>
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<tr>
<td><em>DP 4A - COMPUTER PROGRAMMING I</em></td>
<td>Prerequisite: DP 1 and 2 years of high school algebra or Math 7 with a grade of C or better. 2 hours lecture, 3 hours laboratory weekly. Familiarization with basic digital computer programming concepts; absolute machine language programming system and symbolic programming system; laboratory experience in actual operation and programming. Equivalent to DP 231, Cal Poly Pomona Equivalent to Bus 224, SFVSC.</td>
<td>3 Units</td>
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<tr>
<td><em>DP 4B - COMPUTER PROGRAMMING II</em></td>
<td>Prerequisite: DP 4A 2 hours lecture, 3 hours laboratory weekly. A study of automatic programming systems and their applications to the solution of business data processing problems; disc concepts, FORTRAN and COBOL. (P,S)</td>
<td>3 Units</td>
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<tr>
<td><em>DP 5 - COMPUTER PROGRAMMING BAL</em></td>
<td>Prerequisites: DP 4A and DP 4B or approval of the instructor. High School Algebra or Math 7 desirable 2 hours lecture, 3 hours laboratory weekly. Familiarization with programming for the third generation &quot;byte&quot; computers stressing the IBM/360 series. Laboratory experience in actual programming using Assembly language. Accepted for credit at Cal Poly Pomona Accepted for credit, SFVSC.</td>
<td>3 Units</td>
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<tr>
<td><em>DP 6 - DATA PROCESSING SYSTEMS</em></td>
<td>Prerequisite: DP 1, or consent of instructor. 3 hours lecture weekly. Data processing systems and procedures, analysis of various existing business data processing principles. Required of most business and economics departments for non-data and data systems concepts. (S) Equivalent to DP 222, Cal Poly Pomona Accepted for credit, SFVSC.</td>
<td>3 Units</td>
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<tr>
<td><em>DP 7A - COMPUTER PROGRAMMING RPG</em></td>
<td>Prerequisites: DP 1 or approval of the instructor 3 hours lecture weekly for 8 weeks Basic computer programming concepts and development techniques. Laboratory development and problem solution using IBM Report Program Generator.</td>
<td>1/1 Units</td>
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<tr>
<td><em>DP 7B - GENERAL PURPOSE SIMULATIVE SYSTEM</em></td>
<td>Prerequisites: DP 1 and at least one semester of computer programming 3 hours lecture weekly for 8 weeks Familiarization with concepts and techniques of using a computer for the operation of simulation models.</td>
<td>1/1 Units</td>
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<tr>
<td><em>DP 8A - OPERATING SYSTEMS</em></td>
<td>Prerequisites: DP 1 and at least one semester of computer programming 3 hours lecture weekly for 8 weeks Concepts, techniques and use of operating systems. Methods of coding and maintenance of operating systems for computers with multi-processing capabilities.</td>
<td>1/1 Units</td>
<td></td>
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<tr>
<td><em>DP 8B - DATA MANAGEMENT</em></td>
<td>Prerequisites: DP 1 and at least one semester of computer programming 3 hours lecture weekly for 8 weeks Familiarization with concepts and techniques of data files construction, management and control.</td>
<td>1/1 Units</td>
<td></td>
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<tr>
<td><em>DP 10 - DATAPROCESSING METHODS FOR BUSINESS</em></td>
<td>Prerequisites: None. 2 hours lecture weekly. An introductory course covering the history, development and application of data processing principles. Required of most business and economics departments for non-data processing majors. Not open to students who have completed DP 1. Accepted for credit, SFVSC.</td>
<td>2 Units</td>
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<tr>
<td><em>DP 11 - KEYPUNCH OPERATION</em></td>
<td>Prerequisites: High school typing or equivalent or consent of instructor. 1 hour lecture, 3 hours laboratory (8 weeks) The basic operation principles of the IBM 029 keypunch with laboratory experience on the equipment: (F,S)</td>
<td>1 Unit</td>
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<tr>
<td><em>DP 18 - COMPUTER PROGRAMMING - FORTRAN</em></td>
<td>Prerequisites: Math 3 or one and one-half years of high school algebra 2 hours lecture, 3 hours laboratory weekly Familiarization with basic digital computer programming concepts. Designed to introduce physical science, life science, social science, business, engineering and mathematics students to the computer in problem solving, emphasizing the use of FORTRAN language. (F,S) (co-number Math 18) Equivalent to Bus 223, SFVSC. Accepted for credit, UC (all branches)</td>
<td>3 Units</td>
<td></td>
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<tr>
<td><em>DP 20 - INTRODUCTION TO NUMERICAL METHODS</em></td>
<td>Prerequisites: Math 18/DP 18 and Math 16 OR Math 18/DP 18 and Math 25A 3 hours lecture weekly. Error Analysis/power series calculation of functions; roots of equations; nonlinear simultaneous equations; matrices, determinants, and linear simultaneous equations; numerical integration; interpolation and curve fitting. These numerical methods will be practically applied on the IBM 360 using FORTRAN IV. (Co-number Math 29)</td>
<td>2 Units</td>
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# EARLY CHILDHOOD DEVELOPMENT

**ECD 2A-8 • DIRECTED STUDIES IN EARLY CHILDHOOD DEVELOPMENT**

<table>
<thead>
<tr>
<th>Prerequisites: A course in the specific field and the consent of the instructor and Division Chairman.</th>
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<tr>
<td>1.3 hours tutorial weekly</td>
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<tr>
<td>Designed for selected students who are interested in furthering their knowledge of Early Childhood Development on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.</td>
</tr>
</tbody>
</table>

**ECD 30A • CHILD GROWTH & DEVELOPMENT I**

- **3 Units**
- **Prerequisites:** None
- 3 hours lecture weekly

- A study in depth of the social, emotional and physical development of the normal child in relation to the home and the early years of school; special attention to prenatal and infant development.

- Accepted for credit, SFVSC

**ECD 30B • CHILD GROWTH & DEVELOPMENT II**

- **3 Units**
- **Prerequisites:** ECD 30A
- 3 hours lecture weekly

- Knowledge and understanding of how the social, intellectual, physical and emotional growth of the baby and young child affects the child from infancy to adolescence. Emphasis on the relationship of early childhood development to the child's later functioning academically, psychologically and socially in school, with his peers, and in his family.

**ECD 31A • GROWTH & DEVELOPMENT OF THE EXCEPTIONAL CHILD I**

- **3 Units**
- **Prerequisites:** ECD 30A
- 3 hours lecture weekly

- The social, emotional, and physical development of the exceptional child in relation to the home, community, hospital and nursery school. Special attention to the child's motor, speech, perceptual and psychological development.

**ECD 31B • GROWTH & DEVELOPMENT OF THE EXCEPTIONAL CHILD II**

- **3 Units**
- **Prerequisites:** ECD 30A and ECD 31A or consent of instructor
- 3 hours lecture weekly

- Identifying and understanding children with special learning disabilities such as 'hyperactivity.' Highly gifted, mentally retarded, and those with communication or perceptual difficulties. To assist potential teachers and parents in planning and implementing programs and curriculum for these children at school and at home.

**ECD 38 • OBSERVATION IN THE NURSERY SCHOOL**

- **3 Units**
- **Prerequisites:** None
- 2 hours lecture, 3 hours laboratory weekly

- An introduction to child growth and development and working with young children in the nursery school setting. Students will observe children's activities in the nursery school (with guidance) and then participate in the actual program with limited assignments. Accepted for credit at SFVSC

**ECD 39A • SUPERVISED PARTICIPATION IN THE NURSERY SCHOOL**

- **3 Units**
- **Prerequisites:** ECD 30 and ECD 38 or permission of instructor
- 2 hours lecture, 3 hours laboratory weekly

- Training in nursery school procedures and practices for students who will be teaching young children or those who are now employed in nursery schools, Head Start Centers, and day-care facilities. Students will gain practical experience while actually working with the young children in the nursery school setting.

**ECD 39B • SUPERVISED PARTICIPATION IN THE NURSERY SCHOOL**

- **3 Units**
- **Prerequisites:** ECD 39A or permission of instructor
- 2 hours lecture, 3 hours laboratory weekly

- Extended training in observation, participation and planning of the nursery education experiences of young children in community nursery school settings; i.e., child care facility, private and church programs, Head Start and special education in addition to the campus laboratory experience.

**ECD 40 • CHILD, FAMILY AND COMMUNITY**

- **3 Units**
- **Prerequisites:** Advanced standing and consent of instructor and Division Chairman.

- 3 hours lecture weekly

- Pattern of child-rearing in contemporary society. Interaction of family and community. Significance of personal and social values in family life and community action. Individual and social resources for family health and welfare and improving child development.

- Accepted for credit, SFVSC

**ECD 41 • NURSERY SCHOOL PROGRAMS**

- **3 Units**
- **Prerequisites:** ECD 49
- 3 hours lecture weekly

- A survey of philosophies and programs in the field of Nursery Education. Experience in planning a curriculum for a nursery school program. Special emphasis provided for selection and arrangement of equipment and materials. To furnish a rich environment for the mental and physical growth of nursery school children.

- Accepted for credit at SFVSC

**ECD 42 • NURSERY SCHOOL ADMINISTRATION AND SUPERVISION**

- **3 Units**
- **Prerequisites:** ECD 40 and ECD 41 or consent of instructor

- 3 hours lecture weekly

- Origin of nursery school movement in California. Types and essentials of nursery schools, including licensing, legislation standards, daily routines, teacher responsibility, and public relations. This course will include principles and practices of communication skills for the teacher and administrator with other staff members in the Nursery School and between the school and the home.

**ECD 43 • PARENT AND TEACHER COMMUNICATIONS AND CONFERENCING**

- **3 Units**
- **Prerequisites:** ECD 40
- 3 hours lecture weekly

- A course to increase knowledge and effectiveness in parent-teacher conferencing with an emphasis on techniques that facilitate skillful communication. Understanding parental and teacher goals and expectations in relationship to the young child.

**ECD 49A-8 • DIRECTED WORK EXPERIENCE IN EARLY CHILDHOOD DEVELOPMENT**

- **1.3 Units**
- **Prerequisites:** Consent of instructor and Division Chairman
- 5-15 hours laboratory weekly

- On the job training for students under the supervision of instructor and employer. An introduction to program, policies and procedures in the specific fields. Maximum of 12 units.

**ECD 56 • EARLY CHILDHOOD INSTITUTE**

- **13 Units**

- A short term lecture-workshop series designed primarily for a nursery school personnel in the teaching and administrative roles. This course will provide opportunity to gain understanding and skills in the areas of communication with children, parents, staff, and community agencies.

**ECD 51 • MUSIC IN THE NURSERY SCHOOL**

- **3 Units**
- **Prerequisites:** None

- 3 hours laboratory weekly

- Designed to help teachers in understanding the growth and development of children in relation to music at home and at school. Also helps to develop creative music skills in the nursery school. In particular, emphasis will be placed on skill, construction and playing of simple musical instruments, creative rhythm, and composing songs.

**ECD 52 • ART IN THE NURSERY SCHOOL**

- **3 Units**
- **Prerequisites:** None

- 3 hours lecture weekly

- To provide opportunities for teachers to learn how to help their children in the field of art. To help teachers in understanding the growth and development of children in relation to creative experience both at home and at school. The development of practical materials in the creative arts and an understanding of the individual child to his own creative expression.

**ECD 53 • SCIENCE IN THE NURSERY SCHOOL**

- **3 Units**
- **Prerequisites:** None

- 3 hours lecture weekly

- To provide opportunities for teachers to learn how to help their children in the field of science. To help teachers in understanding the growth and development of children in relation to science both at home and at school; the development of practical materials in a science area.

**ECD 54 • LITERATURE IN THE NURSERY SCHOOLS**

- **3 Units**
- **Prerequisites:** None

- 3 hours lecture weekly

- Exploration of various experiences appropriate to the development of young children including picture books, flannel graphs, poetry, puppetry, records, television, dramatic play. Emphasis on developing language concepts and skills.
ECD 50 - CREATIVE MOVEMENT ACTIVITIES FOR CHILDREN 3 Units
Prerequisites: None.
3 hours lecture weekly.
A presentation of methods and materials which parents and teachers of preschool and early elementary aged children can utilize in encouraging and directing creative movement experiences in the school, home, or various organizations (YMCA, church). (Co-numbered PE 92)

ECONOMICS

Econ 1A-B - PRINCIPLES OF ECONOMICS 3-3 Units
Prerequisite: Satisfactory score on placement test; Econ 1A for Econ 1B.
3 hours lecture weekly.
First semester - Functioning of a mixed enterprise system, business organization, labor organization and problems, the economic role of governments, national income determination, monetary and fiscal policies, money and banking.
Second semester - Price system, functional distribution of income, international trade and finance, comparative economic systems, economic growth and development. (F,S)
Equivalent to Econ 150, 160, SFVSC
Accepted for credit, UC (all branches)

Econ 10 - THE AMERICAN ECONOMY 3 Units
Prerequisites: None.
3 hours lecture weekly.
A survey of the American economy with emphasis on the development, functioning, and significance of economic institutions of concern to citizens. The monetary system, consumer-producer relationships, the role of government and fiscal policy, business cycle, international funds, and unemployment are examined in detail.
Accepted for credit, SFVSC

Econ 22A-B - DIRECTED STUDIES IN ECONOMICS 1.3-1.3 Units
Prerequisites: A course in the specific field and consent of the instructor and Division Chairman.
1.3 hours tutorial weekly.
Designed for the curious and responsible student who has already demonstrated sufficient proficiency in economics. Intent is to permit, by means of independent study, the student's further pursuit of economics. Maximum of 6 units.
Maximum credit, 1 course, UC (all branches)

Econ 42 - ECONOMICS OF ENTERPRISE 3 Units
Prerequisites: None.
3 hours lecture weekly.
This course explores important concepts of business and economics by applying them to today's events in the world, the U.S. and Ventura County. Ideas about profits, supply and demand, money, insurance, costs, pricing, and management will be examined. Emphasis will be placed on the practical use of these concepts in one's everyday life. This class might be called "Economics of Business." (Co-numbered Bus 42)

EDUCATION

Ed 1A-B - INSTRUCTIONAL SKILLS 3 Units
Prerequisite: Satisfactory score on placement test.
3 hours lecture weekly.
A survey of the educational methods and materials which an instructional aide will encounter in a public elementary or secondary school classroom. Content would include: personal computer use, audio-tutorial, audio-visual equipment, elementary grammar and spelling, arithmetic, chalkboard techniques, and mechanical reading aids.

ED 7 - INSTRUCTIONAL MATERIALS LABORATORY 2 Units
Prerequisites: Teaching Credential or consent of instructor.
1 hour lecture, 3 hours laboratory weekly.
A comprehensive laboratory course for the purpose of developing instructional materials for the classroom. Materials covered are charts, posters, slides, filmsstripes, overhead transparencies, slide-tape, presentations, photocopies and technical master.

Ed 10 - INTRODUCTION TO EDUCATION 3 Units
Prerequisites: None.
3 hours lecture weekly.
An introduction to a career in teaching and the issues and problems involved at all levels of American Education. Includes such areas as the historical, social, philosophical and psychological foundations and organization of education, and examines the contribution of teachers to the profession, students, and the community.

Ed 22A-B - DIRECTED STUDIES IN EDUCATION 1.3-1.3 Units
Prerequisites: Consent of instructor and division chairman.
1.3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of education on an independent study basis. Assigned problems will involve library and field work. Maximum of 6 units.

Ed 49-B - DIRECTED WORK EXPERIENCE IN INSTRUCTION & TUTORING 1.3 Units
Prerequisites: Consent of instructor and/or appropriate coordinator.
5-15 hours lab weekly.
On the job training for students under the supervision of an instructor or an education coordinator. The student will gain practical experience in the application of instructional practices and tutoring methods as used in specific teaching situations in the field. Maximum of 8 units.

ENGINEERING / ENGINEERING TECHNOLOGY

Engr 1 - THE ENGINEERING PROFESSION 1/1 Unit
Prerequisites: None.
1 hour lecture weekly (1 weeks).
A study of the engineering profession: its requirements, opportunities, and responsibilities. Presentations by members of the engineering profession. (F)
Accepted for credit, UC (all branches)
Accepted for credit, Cal Poly SLO

Engr 4 - ENGINEERING GRAPHICS WITH DESCRIPTIVE GEOMETRY 4 Units
Prerequisite: Major in Engineering or consent of instructor.
2 hours lecture, 6 hours laboratory weekly.
Introduction to elementary design, including experimental design of a structure, machine, circuit, or process. Graphic computations and analysis, including graphic calculus and nomography. Preparation of working drawings. Descriptive geometry.
Engr 4 with Engr 1 equivalent to Engr 107, SFVSC
Accepted for credit UC (all branches)
Equivalent to ET 244, Cal Poly SLO

Engr 6 - COMPUTER SOLUTIONS TO ENGINEERING PROBLEMS 3 Units
Prerequisite: Math 25A
3 hours lecture weekly.
The use of digital computers in the solution of engineering problems, programming and programming languages. Emphasis will be placed on the solution of engineering problems using the FORTRAN and PL 1 programming languages.
Accepted for credit, UC (all branches)
Equivalent to Engr 200, SFVSC

Engr 8A - SURVEYING 3 Units
Prerequisites: None.
2 hours lecture, 3 hours laboratory weekly.
Affords the student the opportunity to make engineering measurements. The student studies in detail these three areas of land measurement: horizontal, angular, and elevation. The theory of random errors, the probability curve and the theory of least squares is explained and applied.
Accepted for credit, SFVSC

Engr 8B - ADVANCED SURVEYING 3 Units
Prerequisites: Engr 8A
2 hours lecture, 3 hours laboratory weekly.
Lectures, laboratory instruction on vertical control, precise leveling, horizontal control; triangulation, trilateration, traverse; electric distance measurements; least square adjustment of control survey observations; state coordinate system; astronomical observations for azimuth and latitude.

Engr 12 - ENGINEERING STATICS AND STRENGTH OF MATERIALS 4 Units
Prerequisites: Math 25A
4 hours lecture weekly.
Vector algebra, equivalent force systems, free body diagrams and equilibrium, structural mechanics, behavior of deformable solids, stress and strain, tension, compression, flexure, torsion, beams, columns, statically indeterminate problems, multiaxial stresses, theories of strength.
Equivalent to Engr 240, SFVSC
Accepted for credit, SFVSC
Engr 15 - INTRODUCTION TO CIRCUIT ANALYSIS
3 Units
Prerequisites: Math 25C, Ph 4C (Can be concurrent enrollment.)
3 hours lecture weekly.
Introduction to the analysis of electrical circuits, basic network elements;
circuit analysis theorems; natural and forced response of simple circuits;
steady state sinusoidal analysis.
Equivalent to either EI 213 or EE 133, Cal Poly SLO
Accepted for credit: UC (all branches)
Accepted for credit, SFVSC

Engr 19 - ENGINEERING MATERIALS
3 Units
Prerequisites: Chem 1B, Ph 4B
3 hours lecture weekly.
Application of basic principles to the selection and use of engineering
materials; analysis of the internal structures of materials and dependence
of properties upon these structures; the study of the behavior of materials in
service.
Equivalent to either WM 306 or WM 335, Cal Poly SLO
Accepted for credit UC (all branches)
Equivalent to Engr 227 If 227L is taken after transfer, SFVSC

Engr 45 - SLIDE RULE
1 Unit
Prerequisites: Math 2 or equivalent.
1 hour lecture weekly.
Use of all 23 scales of a Log Log Decitrig Slide Rule; mathematical
principles involved in the construction and use of the various scales.
(Co-Number Math 46).

ET 1 - ENGINEERING TECHNOLOGY
½ Unit
Prerequisites: None
1 hour weekly (6 weeks)
An introductory course describing the requirements, opportunities, and
responsibilities of technicians in the various fields of engineering and
technology. Members of the profession will speak. (F)
Accepted for credit, Cal Poly SLO

ET 2 - MECHANICAL DRAFTING
3 Units
Prerequisites: None.
2 hours lecture, 3 hours laboratory weekly.
An introduction to drafting and graphic practice. Use and care of drafting
equipment and instruments; lettering, theory of orthographic projection;
pictorial drawings, sketches, working drawings. Prerequisite to all drafting and
design courses. Designed to satisfy general education fine arts requirement.
(F)
Equivalent to ET 131, Cal Poly SLO

ET 3 - GRAPHICS AND ENGINEERING SKETCHING
3 Units
Prerequisites: ET 2 or consent of instructor.
2 hours lecture, 3 hours laboratory weekly.
Advanced orthographic projection: auxiliaries, sections, dimensioning,
working drawings, charts, scales, perspective drawings, and freehand sketching.
Equivalent to either ET 142 or ET 151, Cal Poly SLO

ET 6AB - BASIC ELECTRONICS FOR FCC LICENSING
3 Units
Prerequisites: ET 208 or ET 228 (can be concurrent) or Broad 2.
3 hours lecture weekly.
Basic electronics circuits pertaining to radio and television broadcasting.
Intended to prepare the student for the series of Federal Communications
Commission examinations eventually leading to the first radio telephone
operators license. (Co-number: Broadcasting 6A-6B).

ET 10AB - ELECTRONICS DRAFTING
3 Units
Prerequisites: Mechanical Drafting or consent of instructor.
ET 10A for 10B
2 hours lecture, 3 hours laboratory weekly.
ET 10A - Review of basic drafting as applied to electronics. Practice and
development of skills in drawing symbols, block diagrams and schematic
diagrams. Students will have an opportunity to redesign circuit diagrams.
ET 10B - Practice and development of advanced drafting work such as
printed circuits, wiring diagrams, mechanical construction and special
diagrams.
Equivalent to either EE 146 or EL 146, Cal Poly SLO

ET 14 - TECHNICAL ILLUSTRATION
3 Units
Prerequisites: ET 2 or consent of instructor.
2 hours lecture, 3 hours laboratory weekly.
Preparation of technical illustrations to meet the standards of industry;
drawing from blueprints, technical orders and freehand sketches; technical
aspects of preparing work for reproduction; axonometric and perspective
projection.
Equivalent to FT 245, Cal Poly SLO
ET 15 – CIVIL ENGINEERING DRAFTING
Prerequisites: ET 2 or equivalent consent of instructor.
2 hours lecture, 3 hours laboratory weekly.
Computations and procedures peculiar to construction engineering office activities; maps and land descriptions; highway design procedures; water supply and sewer design; quantities and estimates; structures.
Accepted for credit, Cal Poly SLO

3 Units

*ET 16 – RESIDENTIAL CONSTRUCTION DRAFTING
Prerequisites: ET 2 or equivalent consent of instructor.
2 hours lecture, 3 hours laboratory weekly.
Design and drafting of residential construction with consideration given to cost, location, client needs, and available materials. Preparation of complete working drawings. Includes field trips to construction sites. Appropriate codes are studied.

3 Units

*ET 17 – COMMERCIAL CONSTRUCTION DRAFTING
Prerequisites: ET 2 or equivalent consent of instructor.
2 hours lecture, 3 hours laboratory weekly.
Design and drafting of commercial construction with consideration given to cost, location, client needs, and available materials. Preparation of complete working drawings. Includes field trips to construction sites. Appropriate codes are studied.

3 Units

* ET 16 and 17 are equivalent to Arch 231-32 at Cal Poly, SLO upon review of the student’s portfolio.

ET 20A – PRINCIPLES OF ELECTRONICS I
Prerequisites: Math 2 and 3 (concurrent) or Math 7 (concurrent)
4 hours lecture - 3 hours laboratory weekly.
Passive circuit theory electronic laws; Ohm’s law; Kirchhoff’s laws; circuit theorems, circuit solution technique. Passive components: resistors, capacitors, inductors; equivalent circuits; DC and AC circuits. Frequency response: passive filters. Laboratory emphasizes the study of practical theory study. Equivalent to either EL 111 and EL 151 combined, or IT 131 and IT 132 combined, Cal Poly SLO

5 Units

ET 20B – PRINCIPLES OF ELECTRONICS II
Prerequisites: ET 20A
4 hours lecture, 3 hours laboratory weekly.
Active electronic circuits. Comparison of linear and nonlinear systems. Gain: frequency response; principles of feedback; solid state and vacuum devices. Device application: small signal amplifiers; power amplifiers; oscillators; special purpose applications. Laboratory emphasizes application of active circuit theory. Equivalent to either ET 231, or EL 112-152 combined, or IT 133, Cal Poly SLO

5 Units

ET 20C – PULSE AND DIGITAL CIRCUITS
Prerequisites: ET 20B
4 hours lecture, 3 hours laboratory weekly.
Analysis of pulse circuits; transient AC circuits; wave shaping circuits; switching circuits and oscillators; flip flops; logic circuits; memory; Boolean Algebra. Laboratory will emphasize physical design and operation of pulse circuits. Equivalent to ET 232, Cal Poly SLO

5 Units

ET 20 D – ELECTRONIC SYSTEMS
Prerequisites: ET 20C
4 hours lecture, 3 hours laboratory weekly.
Principles of electronics systems. Communications systems; amplitude modulation; frequency modulation; pulse modulation; transmission and reception of radio signals. Control systems. Digital and analog computers. Power systems. Lab emphasizes applications of the above techniques plus the interconnection of simple circuits into electronic systems. Accepted for credit, Cal Poly SLO

5 Units

ET 22A-B - DIRECTED STUDIES IN TECHNOLOGY
Prerequisites: A course in the specific field and the consent of the instructor and division chairman
1-3/13 Units
Designed for selected students who are interested in furthering their knowledge of technology on an independent study basis. Assigned problems will involve library, laboratory and field. Maximum of 6 units. Accepted for credit, Cal Poly SLO

ET 28 – ELECTRONIC MEASUREMENTS
Prerequisites: ET 20B (or concurrent enrollment)
2 hours lecture, 3 hours laboratory weekly.
Theory and practice of the testing of electronic circuits. Laboratory tests equipment. Gain; frequency response; frequency measurement; time measurement; component and circuit evaluation; calibration of electronic test equipment. Lab emphasizes the use of electronic measuring equipment and the design of measurement schemes to accomplish specified tasks. Equivalent to ET 132, Cal Poly SLO

3 Units
ET 30 - TECHNICAL MATERIALS  
Prerequisites: None.  
3 hours lecture weekly 
Introduction to the properties of materials including physical properties, limitations, design considerations, and measurement procedures. 
Accepted for Credit, Cal Poly SLO  
3 Units

ET 31 - MECHANICS  
Prerequisite: Math 2 or concurrent enrollment  
3 hours lecture weekly 
A non-calculus course relating to the principles of plane statics and dynamics and their application to engineering problems; force systems, equilibrium conditions, force analysis of structures, friction, fluid statics, kinematics in plane motion. 
Accepted for Credit, Cal Poly SLO  
3 Units

ET 32 - STRENGTH OF MATERIALS  
Prerequisite: ET 31  
3 hours lecture weekly. 
Principles of applied mechanics of materials, utilizing basic mathematics in stress-strain concepts, beam analysis, joints and connections, and stress analysis. 
Accepted for Credit, Cal Poly SLO  
3 Units

ET 34 - HYDRAULICS  
Prerequisite: Math 2 or concurrent enrollment.  
3 hours lecture weekly 
An introduction to the principles of hydrology and hydraulics with application of these principles to the design of engineering structures. 
Accepted for Credit, Cal Poly SLO  
3 Units

ET 49A-B - DIRECTED WORK EXPERIENCE IN ELECTRONICS  
Prerequisite: Consent of instructor and division chairman  
1-3 hours laboratory weekly 
On-the-job training for students under the supervision of instructor and employer. An introduction to methods, equipment and working conditions existing in specific fields of electronics technology. 
1-3 Units

ENGLISH

Engl 1 - LITERATURE AND WRITTEN EXPRESSION  
Prerequisites: Satisfactory placement score 
3 hours lecture weekly for eight weeks 
The objective of these English courses is to do the following: 
1. To explore and analyze literature 
2. To enrobe skills of self-expression and composition  
The structure of these English courses gives the student these options: 
1. The student may choose from any of the courses listed 
2. The student may take a different instructor for each eight-week segment 

Listed below are the current English 1 courses. Two English 1 courses are equivalent to the traditional English 1A course (3 units); four English 1 courses are equivalent to the traditional English 1A and 1B courses (6 units). All courses listed are not offered each semester. 
Accepted for Credit, SFVSC 
Accepted for Credit, UC (all branches) 
1-A Composition/Poetry 
1-B Composition/Short Story 
1-C Composition/Novel 
1-D Composition/Drama 
1-E Composition/Essay 
1-F Composition/English Focus; The following genres 

Rites of Passage - Deals with the literature of birth, puberty, and death now and in the past. 
Existentialism in Literature - Explores themes and topics as expressed in modern American and European literature. 
Satire - Looks at the art of comic ridicule from examples both past and present. 

Modern Poetry - Scrutinizes current trends in poetry and traces antecedents. 
Christian Literature - Studies the Bible and other related works as truth, fact, and allegory. The Bible and other related works as truth, fact, and allegory. 

Shakespeare - Studies a selection of Shakespeare's major works and relates them to the present. 

Utopian Literature - Samples the ideals and hopeful plans of a select group of dreamers. 

Of Men and the Sea - Explores man's relationship with the sea as represented in various plays, stories, and poems. 

Mythology - Studies myth and its connection with man and society in major literature works. 

Cinema - Explores examples of the cinematic art which you talk about, write about and mirror. 

Comedy - Captures Flahast, Natty Bumppo, Lenny Bruce and others as best they can. 

Literature of the American Indian - Studies the American Indian both past and present through his own scripture, fiction, poetry and song. 

Literature of Risk - Gripples with man and woman facing marriage, patriotism, duty, death, and other rituals of life. 

Contemporary American Jewish Prose Fiction - Examines the relationship between form and meaning in the prose fiction of contemporary writers such as Bernard Malamud, Philip Roth, Saul Bellow, L.B. Singer, and Bruce J. Friedman. 

Recent American Fiction - Deals with literature of the Sixties, by men likeMailer, Updike, Roth, Cleaver, and Albee. 

Literature of the American West - Deals with the energies, idealism, viciousness and generosity found in stories, poems, and novels about the writing of the West. 

Literature of Rural America - Studies in short works of fiction by Mark Twain, Sinclair Lewis, Sherwood Anderson, Willa Cather, William Faulkner and others. The life style, attitudes and values of small towns in America. 

French Literature - Samples from 19th and 20th Century French fiction in English translation, Flaubert, camus, Sartre, Genet and others. 

French Philosophers - Explores the basic works in English translation of important French philosophers such as Voltaire, Rousseau, Camus and Sartre. 

Latin American Literature - Latin American literature in English translations. Readings will include such works as The Conquest of New Spain, The Layrhythm of Soltitude, and The Underdogs. 

Spanish Literature - Spanish literature in English translations. Readings will include such works as Don Quixote, Blood Wedding, Rebellion of the Masses, and Piztero and I. 

Modern German Literature in Translation - A study of short stories, dramas, and poetry from 1900-1945 German literature in English translation. Selections from Nietzsche, Hauptmann, Hofmannsthal, Hesse, Kafka, Rilke, T. Mann, Brecht, and others. 

Post War German Literature in Translation - A study of selected German literature since 1945. Drama, short stories, and poetry by such authors as Zuckmayer, Frisch, Durrenmatt, Bachert, Grass, Boll, Slezak, and others will be analyzed and discussed. 

Experimental Film - Viewing and analysis of student made and experimental films. 

Poetry Workshop - Form and style in poetic writing, with emphasis on student creativity. 

Creative Writing - Form and Style in short fiction and poetic creation, with emphasis on student writing. 

Blues Literature - A treatment of tragic poetry and detailed examination of renowned Blues singers from the past to B.B. King. 

Beatles Literature - A detailed examination of the poetic lyrics of songs written by the Beatles. 

Soviet Russia - Study of fiction and poetry of 'Soviet realist' writing. 

Literature of the 60's - The writings of American authors of the generation of the 60's. 

Institutions in Literature - The literature of prisons, schools, mental hospitals, and others. Social, political and economic institutions as manifestation in fiction and poetry. 

Sports Literature - Stories, poems, novels and non-fiction writing on competitive sports, sea-travel, and other individual and team endeavors. 

California Literature - The writings of Bret Harte, Mark Twain and others of California vintage. 

Film-Making - Students will make a short 8mm film. 

NOTE: Humanities 6 and Humanities 5A and SB also offer English 1 credit (See page 37.)

Engl 2 - PREPARATORY ENGLISH  
Prerequisite: Required of all students needing further work in written expression. 
3 hours lecture weekly 
Emphasis on English grammar, spelling, vocabulary building, sentence structure, and dictation; frequent practice in writing short themes and in reading and analyzing selected essays. (Evenings and Summer only.)

Engl 3 - WRITING WORKSHOP  
Prerequisites: Required of all students needing further work in written expression. 
4 hours lecture, 3 hours laboratory weekly. 
Intensive practice in written expression with emphasis on major problems such as developing ideas, organization, and clarity of statement. Students will be expected to write regularly. Work will be evaluated on an individual basis. 
5 Units
Eng 4A-B - ENGLISH AS A SECOND LANGUAGE 3-3 Units
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly
Identification of weakness in speech, writing, reading, vocabulary, spelling for students for whom English is not the principle language. Strengthens these areas so that the student will be capable of communicating well in English. Some emphasis will also be placed on American customs. Accepted for credit, UC (all branches)

Eng 10A - CREATIVE WRITING 3 Units
Prerequisite: English 1 or consent of instructor
3 hours lecture weekly
A writing workshop designed to concentrate on the techniques of writing fiction; practice in writing original works; discussion and analysis of students' writings.
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Eng 10B - CREATIVE WRITING 3 Units
Prerequisite: English 1 or consent of instructor
3 hours lecture weekly
A writing workshop designed to concentrate on the techniques of writing poetry; practice in writing original works; discussion and analysis of students' writings.

Eng 11 - RADIO-TELEVISION WRITING 2 Units
Prerequisite: Eng 1 or consent of instructor
2 hours lecture weekly
This course deals with the preparation and analysis of dramatic scripts, program formats, public service announcements, local news, commercials, continuity, discussion programs, special events, talks and interviews. Training is given in the fundamentals of script format, professional methods, and the ethics and restrictions involved in the broadcasting media. (Co-number Broad 61)
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Eng 13 - MAJOR AMERICAN WRITERS 3 Units
Prerequisite: Eng 1
3 hours lecture weekly
Reading from the works of Emerson to Le Roi Jones, including Thoreau, Whitman, Twain, Crane, Faulkner, Hemingway, and selected modern poets.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Eng 15A-B - SURVEY OF ENGLISH LITERATURE 3-3 Units
Prerequisite: Eng 1 as required by transfer institution.
3 hours lecture weekly
First semester—English literature in its cultural framework from Anglo-Saxon times to the Romantic Period. Second semester—English literature in its cultural framework from the rise of Romanticism to the present. Accepted for credit, UC (all branches)
Equivalent to Eng 258-259, SFVSC

Eng 17 - SHAKESPEARE 3 Units
Prerequisite: Eng 1
3 hours lecture weekly
A survey of twelve plays, including romantic comedies, chronicles, tragedies, "dark" comedies, and romances; lectures; critical papers; and class discussions.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Eng 18 - THE MODERN AMERICAN NOVEL 3 Units
Prerequisite: Eng 1
3 hours lecture weekly
An analysis of structure and meaning in the works of Dreiser, Hemingway, Dos Passos, Faulkner, Lewis, Wolfe, Bellow, Ellison, Malamud, and I.B. Singer. Written and oral presentations will supplement lectures and classroom discussions.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Eng 19 - INTRODUCTION TO SHORT STORY 3 Units
Prerequisite: Eligibility for English 1
3 hours lecture weekly
The form and meaning of short-stories through intensive analysis of structure and meaning in selected American, British and continental examples.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Eng 21 - CONTEMPORARY NOVELS 3 Units
Prerequisites: English 1
3 hours lecture weekly
Reading and analysis of post World War II novels, American and foreign, selected in view of their popularity as well as their innovative importance and literary quality.

Eng 22A-B - DIRECTED STUDIES IN ENGLISH 1.5-3 Units
Prerequisite: A course in the specific field and the consent of the instructor and division chairmen.
1-3 hours lecture weekly
Designed for selected students who are interested in furthering their knowledge of English on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units. Maximum credit 3 units, SFVSC

Eng 25 - PLAYWRITING 3 Units
Prerequisites: None
3 hours lecture weekly
Designed for the student to develop his skills in writing for the theatre with a possible opportunity of production. (Co-number ThA 25)
Accepted for credit, UC (all branches)

Eng 27 - CONTEMPORARY FRENCH LITERATURE IN TRANSLATION 3 Units
Prerequisites: None
3 hours lecture weekly
Readings in contemporary French literature (Camus, Satre, Ionesco, Proust, Co-number, French 4)

Eng 28 - HISPANIC CULTURE AND CIVILIZATION 3 Units
Prerequisites: One year college Spanish or reading ability in Spanish
3 hours lecture weekly
Reading and discussion in Spanish of the civilization and culture of the Spanish speaking countries, emphasizing one or two countries each semester. (Co-number, Span 4)

Eng 30 - MASTERPIECES OF WORLD LITERATURE 3 Units
Prerequisite: Eng 1
3 hours lecture weekly
A survey of representative authors from the time of Homer to the Renaissance, with intensive study of selected Greek, Roman, Medieval, and Renaissance masterpieces.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Eng 31 - MASTERPIECES OF WORLD LITERATURE 3 Units
Prerequisite: Eng 1
3 hours lecture weekly
A survey of major literature from the Renaissance to the present, including such authors as Locke, Voltaire, Rousseau, Goethe, Emerson, Tolstoi, Ibsen, and Mann.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Eng 35A - SURVEY OF AMERICAN LITERATURE 3 Units
Prerequisite: Eng 1
3 hours lecture weekly
Significant American writers from the early seventeenth century to 1800, with emphasis on the intrinsic political, social, and intellectual trends of the periods they represent.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Eng 35B - SURVEY OF AMERICAN LITERATURE 3 Units
Prerequisite: Eng 1
3 hours lecture weekly
Significant American writers from 1800 to the present, with emphasis on the intrinsic political, social, and intellectual trends of the periods they represent.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Eng 39 A-B - MAJOR CIVILIZATIONS THROUGH DRAMA 3-3 Units
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly
The tribal age, the age of cities, and the development of modern history to be recreated through research and produced in plays. A sense of history to be developed out of creative experiences based on historical study of the Greek, the Roman, Medieval, and the modern.

Eng 40 - WRITING RESEARCH PAPERS 3-3 Units
Prerequisite: Consent of instructor
3 hours lecture weekly (8 weeks)
Instruction will be given on all phases of preparing a research paper. Such problems as selecting framing and narrowing a topic, sequencing and outlining, data collection and presentation, bibliography preparation, documentation, argument and logic will be discussed and explored. Students will be expected to complete a research paper during the course.
Eng 45 • MEXICAN-AMERICAN LITERATURE IN ENGLISH
3 Units
Prerequisite: Satisfactory score on placement test or consent of instructor.
3 hours lecture weekly.
Critical analysis in seminar form of Mexican-American literature. Concern is to present a point of view from the artistic eyes of the Mexican-American. Discussions will emphasize a cross cultural examination of poetry, prose, fiction and non-fictional works. The class will have an opportunity to experience and discuss pertinent ideas and feelings which best lend realism to the literature in question.
Equivalent to Mex-Amer. 201, SFVSC
Accepted for credit, UC (all branches)

Eng 46 • AFRO-AMERICAN LITERATURE
3 Units
Prerequisite: None
3 hours lecture weekly.
Critical analysis in seminar form of Afro-American literature. Concern is to present a point of view from the artistic eyes of the Afro-American. Selected major figures from both the 19th and 20th centuries will be covered, with emphasis given to the most recent authors. The class will have an opportunity to experience and discuss pertinent ideas and feelings which best lend realism to the literature in question.
Equivalent to Afro-American 230, SFVSC
Accepted for credit, UC (all branches)

Eng 47 • MAGAZINE EDITING
3 Units
Prerequisite: Eng 1 or consent of instructor
2 hours lecture, 3 hours laboratory weekly
This is a course in the analysis, development, composing and layout of magazines or similar publications. Emphasis is given to coordinating feature stories and related articles with attractive pictorial displays. Instruction is also given in the graphic arts as related to the magazine production. (Co-numbered Journ 11A-B)

ENGLISH TUTORIAL PROGRAM

Eng 48A-B COMMUNICATION SKILLS PRACTICUM
1-3 Units
Prerequisite: Permission of instructor
6 - 18 hours weekly
During the first year, on-the-job training without financial compensation in the Communication Skills Center as an instructor’s aide, under the continuous direction and supervision of a college English/Reading instructor. Prior to enrollment in the course, the student must meet with the instructor for approval and assignment to this class and must pass a basic proficiency test in Communication Skills.

Eng 49A-B DIRECTED WORK EXPERIENCE IN COMMUNICATION SKILLS
1-3 Units
Prerequisite: Eng 48A or B and permission of instructor
5 - 15 hours weekly
During the second year, after successful completion of the previous units, on-the-job training in the Communication Skills Learning Center as an instructor’s aide, under the continuous direction and supervision of a college English/Reading instructor. Prior to enrollment in the course, the student must meet with an English or Reading instructor for approval and assignment to this class.

ENVIRONMENTAL SCIENCE

Faculty: Byron Edie, Robert Miller, Jack Reynolds, Eugene Berg

Env Sci 1 • ENVIRONMENTAL SCIENCE I
4 Units
Prerequisite: Satisfactory score on placement test
3 hours lecture, 3 hours laboratory weekly.
A discussion of current problems relating to physical and biological science with emphasis on those problems that deal with man and his environment, including such topics as energy resources, food, populations, pesticides, water, air and weather. Students will work with equipment used in fields of pollution, (Physical Science credit)
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Env Sci 2 • ENVIRONMENTAL SCIENCE II
4 Units
Prerequisite: Satisfactory score on placement test
3 hours lecture, 3 hours laboratory weekly.
Relationship between man and his environment in an industrialized culture. Emphasis is upon the biological principles involved in human ecology. Living systems/energy use: man’s affect upon the land, noise impact on organism response, conservation, recreation and niche needs are main topics.
Equivalent to Biol 220, SFVSC
Accepted for Credit, UC (all branches)

ENVIRONMENTAL TECHNOLOGY

Env Sci 10 • INTRODUCTION TO ENVIRONMENTAL SCIENCE 4 Units
Prerequisite: None
3 hours lecture, 3 hours laboratory weekly
A discussion of current environmental problems facing the world today with special emphasis on populations, food production and pollution, including air, water, solid, refuse, thermal and noise pollution.
Env Tech 10A - WATER DISTRIBUTION SYSTEMS 3 Units
3 hours lecture weekly
Introduction to water distribution systems. Water sources and quality; definitions; water system characteristics; operational mathematics; pipe installation and maintenance; meters; pumps and motors; safety; public relations. Prepares student for American Water Works Association Grade IV examination.

Env Tech 10B - WATER DISTRIBUTION SYSTEMS II 3 Units
Prerequisites: Env Tech 10A or AWWA Grade IV Certificate
3 hours lecture weekly
Intermediate water distribution systems; designed to prepare the student for the AWWA Grade III Distribution Systems Operator’s examination.

ESCROW

Escrow 1 - PRINCIPLES OF ESCROW 3 Units
Prerequisites: None
3 hours lecture weekly
A basic course in the Methods and Techniques of escrow procedure for various types of business transactions with emphasis on real estate. This course is designed to introduce the student to the field of escrow.

Escrow 2 - ESCROW PRACTICES 3 Units
Prerequisites: Escrow 1 or consent of instructor
3 hours lecture weekly
An advanced course covering more unusual and different types of escrows and evaluating possible solutions.

Escrow 3 - ESCROW CASE PROBLEMS 3 Units
Prerequisites: Escrow 2
3 hours lecture weekly
Further study of more unusual and difficult types of escrows. Actual case problems are presented and discussed. Conflicts and disputes in escrows are studied.

Escrow 49A-B - DIRECTED WORK EXPERIENCE IN ESCROW 1-3 Units
Prerequisites: None
5-15 hours weekly
On the job training for students under the supervision of instructor and employer. An introduction to business policies, program practices, and procedures in the escrow field.

FIRE SCIENCE

FSc 90 - INTRODUCTION TO FIRE PROTECTION 3 Units
Prerequisites: None.
3 hours lecture weekly.
Philosophy and history of fire protection, history of loss of life and property by fire; organization and function of local, county, state, federal, and private fire protection agencies; survey of professional career opportunities.

FSc 91 - INTRODUCTION TO FIRE SUPPRESSION 3 Units
Prerequisites: None.
3 hours lecture weekly.
Characteristics of behavior of fire; fire hazard properties of ordinary materials; extinguishing agents; fire suppression organization and equipment; basic fire fighting tactics; public relations as affected by fire suppression.

FSc 92 - FUNDAMENTALS OF FIRE PREVENTION 3 Units
Prerequisites: FSc 90 and 91, or consent of instructor.
3 hours lecture weekly.
Organization and function of the fire prevention organization; inspection; surveying and mapping procedures; recognition of fire hazards; engineering a solution of the hazard; enforcement of the solution; public relations as affected by fire prevention.

FSc 93 - FIRE FIGHTING TACTICS AND STRATEGY 3 Units
Prerequisites: FSc 90 and 91, or consent of instructor.
3 hours lecture weekly.
Review of fire chemistry, equipment and manpower, basic fire fighting tactics and strategy; methods of attack; preplanning fire problems.

FSc 94 - HAZARDOUS MATERIALS I 3 Units
Prerequisites: FSc 90 and 91 or consent of instructor.
3 hours lecture weekly.
Review of basic chemistry, storage, handling, laws, standards, and fire fighting practices pertaining to hazardous solids, liquids and gases.

FSc 95 - FIRE PROTECTION EQUIPMENT AND SYSTEMS 3 Units
Prerequisites: FSc 90 and 91, or consent of instructor.
3 hours lecture weekly.
Portable fire extinguishing equipment; sprinkler systems; protection systems for special hazards; fire alarm and detection systems.

FSc 96 - RELATED CODES AND ORDINANCES 3 Units
Prerequisite: FSc 90 and 91, or consent of instructor.
3 hours lecture weekly.
Familiarization with national, state, and local laws and ordinances which influence the field of fire prevention.
FSc 97 - FIRE HYDRAULICS
Prerequisites: FSc 90 and 91 or consent of instructor.
3 Units
Noncredit course.
Review of basic mathematics; hydraulic laws and formulas as applied to the fire service; application of formulas and mental calculation to hydraulic problems; water supply problems; underwriters requirements for pumps.

FSc 98 - BUILDING CONSTRUCTION FOR FIRE PROTECTION
Prerequisites: FSc 90 and 91, or consent of instructor.
3 Units
3 hours lecture weekly.
Fundamental building construction and design; fire protection features; special considerations.

FSc 99 - FIRE COMPANY ORGANIZATION AND PROCEDURE
Prerequisites: FSc 90 and 91 or consent of instructor.
3 Units
2 hours lecture weekly.
Review of fire department organization; fire company organization; the company officer; personnel administration; communications; fire equipment; maintenance; training; fire prevention; fire fighting company; fire fighting capability; records and reports.

FSc 100 - FIRE APPARATUS AND EQUIPMENT
Prerequisites: FSc 90 and 91, or consent of instructor.
3 Units
3 hours lecture weekly.
Driving laws, driving technique; construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment; apparatus maintenance.

FSc 101 - RESCUE PRACTICES
Prerequisites: FSc 90 and 91, or consent of instructor.
3 Units
2 hours lecture weekly.
The human body, emergency care of victims, childbirth, artificial respiration, toxic gases, chemicals and diseases, radioactive hazards, rescue problems and techniques.

FSc 102 - HAZARDOUS MATERIALS II
Prerequisites: FSc 90, 91 and 94, or consent of instructor.
3 Units
2 hours lecture weekly.
A second semester course in hazardous materials covering storage, handling, laws, standards, and fire fighting practices with emphasis on fire fighting and control at the company officer level.

FSc 103 - FIRE INVESTIGATION I
Prerequisites: FSc 90 and 91, or consent of instructor.
3 Units
2 hours lecture weekly.
Introduction to arson and incendiarism, arson laws, and types of incendiarism; methods of determining fire cause, recognizing and preserving evidence, interviewing and detaining witnesses; procedures in handling juvenile court procedure and giving court testimony.

FSc 49A-B DIRECTED WORK EXPERIENCE
Prerequisite: Consent of Coordinator
1-3 Units
5-15 hours laboratory weekly
On the job training for students under the supervision of instructor and employer. An introduction to fire department policies, program practices, and procedures in the fire service field and related areas.

FRENCH

Fr 1A-B - ELEMENTARY FRENCH
Prerequisites: For Fr 1A, consent of counselor for Fr 1B, Fr 1A or 2A, 2 years of high school French with grades of C or better.
4-4 Units
5 hours lecture, 1 hour laboratory weekly.
Intensive study of the French language and culture; special emphasis will be given to the skills and knowledge necessary for speaking and writing French and the unique nature of the people and their history; the language laboratory will be used extensively in the class and students will be expected to arrange an additional hour of language lab time each week.
Equivalent to French 101 and 102, SFVSC
Accepted for credit, UC (all branches)

Fr 2A-B - INTERMEDIATE FRENCH
Prerequisites: For Fr 2A, Fr 1B or 2 years of high school French with grades of C or better; for Fr 2B, Fr 2A or 4 years of high school French with an equivalent proficiency.
4-4 Units
5 hours lecture, 1 hour laboratory weekly.
Further study of spoken and written French and of French culture; development of ability to read with greater ease by study and discussion in French of representative literary works; continued emphasis on oral and written expression. All students will be expected to spend an additional hour of study per week in the language laboratory. (Fr 2A - F, Fr 2B - S)
Equivalent to French 201 and 202, SFVSC
Accepted for credit, UC (all branches)

Fr 4 - CONTEMPORARY FRENCH LITERATURE IN TRANSLATION
Prerequisites: None
3 Units
3 hours lecture weekly.
Readings in contemporary French literature (Camus, Sartre, Ionesco, Proust). (Co-Number Engl 27)

Fr 22A-B - DIRECTED STUDIES IN FRENCH
Prerequisites: A course in the specific field and consent of instructor and Division Chairman
1-3/1-3 Units
1-3 hours lecture weekly (tutorial)
Designed for selected students who are interested in furthering their knowledge of French on an independent basis. Assigned problems will involve library and field work. Maximum of 6 units
Maximum credit, one course, UC (all branches)
Maximum 3 units credit, SFVSC
(See English 1 offerings for courses covering French literature in English translation)

GENERAL STUDIES

Gen St 1 - THE ART OF INVESTIGATION
Prerequisites: Satisfactory score on placement test.
3 Units
3 hours lecture weekly.
An interdisciplinary course intended to introduce students to the various investigative techniques employed by natural and social scientists and the arts. Students are provided with an opportunity to gain a working familiarity with some of the characteristic methodologies employed by investigators in these fields.
Accepted for credit, UC (all branches)

GEOPHYSICS

Geog 1 - ELEMENTS OF PHYSICAL GEOGRAPHY
Prerequisites: Satisfactory score on placement test.
3 Units
3 hours lecture weekly.
A study of the physical elements of geography, hydrosphere, land forms, vegetation, and climate; their interrelationships, pattern of distribution on a world scale, and the mutual relationships which exist between man and his physical environment, including ecology and its social ramifications. Map reading and interpretation emphasized. Field trips will be required. (F)
Equivalent to Geog 101, SFVSC
Accepted for credit, UC (all branches)

Geog 2 - ELEMENTS OF CULTURAL GEOGRAPHY
Prerequisites: Satisfactory score on placement test.
3 Units
3 hours lecture weekly.
Introduction to the broad field of geography--its objectives, principal divisions, basic principles, and application to present-day world problems, understanding human society in relation to the earth environment with emphasis on the cultural elements; geographic analysis of the major world regions. Field trips will be required. (F)
Equivalent to Geography 150, SFVSC
Accepted for credit, UC (all branches)

Geog 3 - GEOGRAPHY OF WORLD AFFAIRS
Prerequisites: Satisfactory score on placement test or consent of instructor.
3 Units
3 hours lecture weekly.
A survey of world geography emphasizing the regions, people, and economic activities characteristic of the major political areas of the world. This course is designed for students who desire to improve their understanding of how world affairs are affected by the way man occupies the earth.
Equivalent to Geog 181, SFVSC

Geog 5 - INTRODUCTION TO METEOROLOGY
3 Units
3 hours lecture weekly.
Introduction to meteorological phenomena; energy, atmospheric circulation, precipitation, interrelationships between land, sea and atmosphere, Introduction to meteorological instrumentation and reporting. Interpretation of data. (Co-number Phys Sci 8)
Equivalent to Geography 103, SFVSC
Accepted for credit, UC (all branches)

Geog 6 - INTRODUCTION TO METEOROLOGY LABORATORY
1 Unit
2 hours laboratory weekly.
Laboratory to accompany Geog 6. Introduction to Meteorological observation; cloud identification, instrumentation; interpretation of weather charts and data; weather system identification and analysis. Field trips required. (Co-number Phys Sci 6)

29
Geog 9 - ENVIRONMENTAL DESIGN: URBAN GEOGRAPHY 3 Units
Prerequisites: Satisfactory score on placement test; a course in Political Science or Sociology
3 hours lecture weekly.
A social science elective, general education course. Study and analysis of the process of urbanization. Population patterns, regional analysis, general land use patterns, and their inter-relationships as well as their correlations with the physical and cultural elements will be included. Emphasis will be on the principles and techniques of land-use planning in urban areas.
Equivalent to Urban Studies 290, SFVSC
Accepted for credit, UC 9
Accepted for credit, UC (all branches)

Geog 10 - GEOGRAPHY OF CALIFORNIA 3 Units
Prerequisites: None
3 hours lecture weekly.
An examination of the inter-relationships between the physical and cultural elements of geography as they occur in California's diversity of landscapes. Special attention will be given to the local region. Field trips will be required.
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Geog 11 - TRAVEL GEOGRAPHY 3 Units
Prerequisites: None
3 hours lecture weekly.
An examination of the various regions of the world in terms of their attractions, both natural and cultural, for travelers. Attention will be given to both well-known and little-known attractions. Context organization will be based on student interests and experiences.
Not designed for transfer.

Geog 13 - TWENTIETH CENTURY WORLD GEOGRAPHY 3 Units
Prerequisites: None
3 hours lecture weekly.
Exploration of the world in the last third of the 20th Century. Emphasis on the world of what is happening in the world, people and events. Not designed for transfer.

Geog 22 A-B - DIRECTED STUDIES IN GEOGRAPHY 1-3/1-3 Units
Prerequisites: Course in the specific field with a recommendmg grad and consent of instructor and Division Chairman.
1-3 hours tutorial weekly.
Design for selected students who are interested in furthering their knowledge of geography on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.
Maximum credit allowed 3 units.

GEOLOGY

Geol 2 - PHYSICAL GEOLOGY 3 Units
Prerequisites: None
3 hours lecture weekly.
Materials and structure of the earth; origin and development of land forms; principles and processes of Geology including erosion and sedimentation; volcanic, glacial and earthquake activity; Introduction to oceanography. Field trips. For lab take Geo 2L (optional) (F,S)
Equivalent to Geology 101, SFVSC
Accepted for credit, UC (all branches)

Geol 2L - PHYSICAL GEOLOGY LABORATORY 1 Unit
Prerequisites: Geol 2 or concurrent
3 hours lecture - laboratory weekly.
Identification of common minerals and rocks. Introduction to topographic, aerial and geologic maps. (Not open to students who have taken Geol 31) (F,S)
Equivalent to Geology 101L, SFVSC
Accepted for credit, UC (all branches)

Geol 3 - HISTORICAL GEOLOGY 3 Units
Prerequisites: None
3 hours lecture weekly.
Geologic history of the earth and evolution of life as revealed in the fossil record, with emphasis on the North American continent; origin of the universe and continental drift theories; elementary problems in paleontology, stratigraphy, structure and geologic mapping. Field trips. (F,S - alternate semesters)
Equivalent to Geology 102, SFVSC
Accepted for credit, UC (all branches)

Geol 15 - MINERALOGY AND CRYSTALLOGRAPHY 3 Units
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly.
Introduction to crystal systems; identification of 100 common metallic and non-metallic minerals and ores by physical methods; mineral occurrence, association and genesis; Introduction to petrographic microscopy. (F, alternate years)
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Geol 16 - PETROLOGY 3 Units
Prerequisites: Mineralogy and 3 additional units in Geology
2 hours lecture, 3 hours laboratory weekly.
Origin, occurrence and identification of 100 common igneous, sedimentary and metamorphic rocks in hand and field specimens. Introduction to thin-section microscopy. Field trips. (S - alternate years)
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Geol 21 - GEOLOGY OF CALIFORNIA 3 Units
Prerequisites: A geoscience course in Geology
3 hours lecture weekly.
Study of the geomorphic provinces of California, including topography, structure, geologic history, lithology and mineral resources. Field project required. Field trips. (F,S - alternate semesters)
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Geol 22A-B - DIRECTED STUDIES IN GEOLOGY 1-3/1-3 Units
Prerequisites: Consent of instructor and Division Chairman.
1-3 hours tutorial weekly.
Directed studies for Geology majors and minors. Maximum of six units.
3 units maximum accepted, SFVSC
3 units maximum accepted, UC (all branches)

Geol 31 - ROCKS, MINERALS AND MAPS 2 Units
Prerequisites: None
2 hours lecture, 1 hour laboratory weekly.
Identification of classification, origin and occurrence of common rocks and minerals in hand and field specimens. The use and interpretation of topographic, aerial and geologic maps. Any day field trips. (F,S)
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Geol 33 - INTRODUCTION TO GEOLOGIC MAPPING 2 Units
Prerequisites: 4 units of Geology, including Geol 2L
1 hour lecture, 3 hours field & laboratory weekly.
Introduction to methods used in Geologic Mapping, including use of Brunton Pocket Transit, Alidade, Plano Table, etc. Each team of students will prepare a geologic map and a geologic report of a limited area in the Moodpark Vicinity. (S - alternate years)
Accepted for credit, UC (all branches)

Geol 41 - GEOLOGY OF THE NATIONAL PARKS AND MONUMENTS 3 Units
Prerequisites: None
3 hours lecture weekly.
Survey of the physical and historical geology of the national parks and monuments with emphasis on western America. Written reports required. Field trips. Not open to students who have had Geol. 2L. (F, S - alternate semesters)
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Geol 51 - WESTERN FIELD GEOLOGY 1-3 Units
Prerequisites: A previous course in geology and/or consent of instructor
Lecture and field trip - variable
Field studies and discussion of geologic processes as exemplified at various localities. Time and place to be announced.

GERMAN

Ger 1A-B - ELEMENTARY GERMAN 4-4 Units
Prerequisites: For Ger 1A, consent of counselor; for Ger 1B, Ger 1A or 2 years of high school German or an equivalent Fluency
5 hours lecture, 1 hour laboratory weekly.
Intensive study of the German Language and culture; special emphasis will be given to the skills and knowledge necessary for speaking and writing German and the unique nature of the people and their history; the language laboratory will be used extensively in the class and students will be expected to arrange an additional hour of language lab time each week.
Equivalent to German 101 and 102, SFVSC
Accepted for credit, UC (all branches)
Ger 22A-B - DIRECTED STUDIES IN GERMAN  
1-3/1-3 Units  
Prerequisite: A course in the specific field and consent of the instructor and Division Chairman  
1-3 hours lecture weekly (tutorial)  
Designed for selected students who are interested in furthering their knowledge of German on an independent study basis. Assigned problems will involve library and field work. Maximum of 6 units. (F.S.)  
3 units maximum allowed, SFVSC  
1 course maximum, UC (all branches)  
(See English 1 offerings for courses covering German literature in English Translation.)

GOVERNMENT ADMINISTRATION

GA 20 - INTRODUCTION TO GOVERNMENT ADMINISTRATION  
3 Units  
Prerequisites: None  
3 hours lecture weekly  
An introduction to the elements, principles, and trends in public administration, government and the administrative processes as a means of accomplishing public goals.

GA 21 - GOVERNMENT PERSONNEL ADMINISTRATION  
3 Units  
Prerequisites: GA 20 or consent of department head  
3 hours lecture weekly  
Study of principles and practices of personnel management; the procurement, development, maintenance, and use of an effective work force.

GA 22A-B - DIRECTED STUDIES IN GOVERNMENT ADMINISTRATION  
1-3/1-3 Units  
Prerequisites: A course in the specific field and permission of coordinator and Division Chairman  
1-3 hours tutorial weekly  
Designed for selected students who are interested in furthering their knowledge of government administration on an independent study basis. Assigned problems will involve library, laboratory and field work. Maximum of 6 units.

GA 23 - ELEMENTS OF GOVERNMENT FINANCE  
3 Units  
Prerequisites: None  
3 hours lecture weekly  
A non-technical introduction to the elements of public finance; the fiscal processes of financing public improvements in an equitable and efficient manner without loss of growth.

GA 24 - PLANNING, PROGRAMMING, BUDGETING SYSTEMS  
3 Units  
Prerequisites: GA 20 and 23  
3 hours lecture weekly  
An explanation of a systems approach designed to accommodate the multiple functions of budgeting in public service.

GRAPHIC COMMUNICATIONS

GC 1A - INTRODUCTION TO GRAPHIC COMMUNICATIONS  
3 Units  
Prerequisites: None  
3 hours lecture weekly  
An orientation to the concepts in Graphic Communications with an overview of printing practices, design, layout, composition, press work, binding, process camera, and related items. Accepted for Credit, Cal Poly SLO.

GC 2 - DUPLICATING PROCESSES  
2 Units  
Prerequisites: Satisfactory score on placement test.  
6 hours lab weekly.  
Characteristics and operation of duplicators, including spirit, stencil, scanner, offset duplicators, thermostrip, ozalid reproduction and dry copying. Practice in the use of multi-color duplication, and the preparation of overhead transparencies.

GC 4 - LAYOUT AND DESIGN TECHNIQUES  
3 Units  
Prerequisites: None  
2 hours lecture, 3 hours laboratory weekly  
Fundamentals of layout and design for graphic reproduction including the principles of design, and the techniques of layout and paste-up. Preparation of line and tone copy for offset reproduction. Designing roughs and visuals and preparation of single and multi-color mechanicals for use in commercial and publication printing. Study of the point system, type identification and copy markup systems. (Concurrently Journ 7)  
Accepted for Credit, Cal Poly SLO.

GC 5A-B - COPY PREPARATION AND COMPOSING SYSTEMS  
3,3 Units  
Prerequisites: GC 1, Bus 11B, and consent of instructor  
2 hours lecture, 3 hours laboratory weekly  
Practical work in the operation of the IBM MT/SC cold-type setting machine, plus work with Vanityper, composer and Headliner systems. Specific instruction is given in newspaper, textbook, magazine, and other commercial composing work.

GC 6A - PROCESS CAMERA  
3 Units  
Prerequisites: GC 1 or consent of instructor  
2 hours lecture, 3 hours laboratory weekly  
Characteristics of photographic materials for the graphic arts. Theory and practice in the use of gallery camera for the production of line and half-tone negatives, densitometry, sensitometry. Applications for special process screens. Accepted for credit, Cal Poly SLO.

GC 6B - ADVANCED PROCESS CAMERA  
3 Units  
Prerequisites: GC 6A, or consent of instructor  
2 hours lecture, 3 hours laboratory weekly  
Advanced theory and practice of the Gallery camera for the production of half-tone negatives, especially duchones and tritones, rescreening, advanced densitometry and sensitometry, introduction to retouching, dot etching and color separation photography. Accepted for credit, Cal Poly SLO.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>GC 7</td>
<td>STRIPPING AND PLATEMAKING</td>
<td>3</td>
</tr>
<tr>
<td>Prerequisites: GC 6A, or consent of instructor</td>
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<tr>
<td>2 hours lecture, 3 hours laboratory weekly.</td>
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<tr>
<td>Planning for lithographic press plates. Ruling, scribining, opaquing, and retouching negatives, preparation of supports for stripping, layout and assembly of stripped flats. Selection, care and making of pre-sensitized and deep etch lithographic plates. Proofing techniques. Accepted for Credit, Cal Poly SLO</td>
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</table>

| GC 8A | LITHOGRAPHY | 3 |
| Prerequisites: GC 6A, or consent of instructor |
| 2 hours lecture, 3 hours laboratory weekly. |
| Theory and practice in the use of single-color sheet-fed offset presses. Sheet feeders, printing units, inking units, dampening units and deliveries. Characteristics of paper and inks for offset photography. Accepted for Credit, Cal Poly SLO |

| GC 8B | ADVANCED LITHOGRAPHY | 3 |
| Prerequisites: GC 6A, or consent of instructor |
| 2 hours lecture, 3 hours laboratory weekly. |
| Survey of single and multi-color sheet-fed offset presses. Emphasis in process color printing and precision control of inking and dampening. Practice in quality control. Accepted for credit, Cal Poly SLO |

| GC 9 | GRAPHIC COMMUNICATIONS LABORATORY | 1-2 |
| Prerequisites: Consent of instructor |
| 3-6 hours laboratory weekly. |
| Practice in production of offset printing, planning, typesetting, copy preparation, camera, preparation of plates, presswork, bindery and finishing. Major emphasis on printing estimates. Accepted for credit, Cal Poly SLO |

| GC 11A | SILK SCREEN PRINTING PROCESSES | 2 |
| Prerequisites: GC 7 or consent of instructor |
| 1 hour lecture, 3 hours laboratory weekly |
| Silk screen process reproduction methods with applications to industry and communications. Includes paper, tusche and glue, knife-cut and photographic stencils, printing mediums, surfaces, and industrial applications such as printed circuits and packaging. |

| GC 11B | ADVANCED SILK SCREEN PRINTING PROCESSES | 2 |
| Prerequisites: GC 11A or consent of instructor |
| 1 hour lecture, 3 hours laboratory weekly |
| Advanced techniques of silk screen printing with emphasis on individual experiences. Exploration of production procedures. Creative, artistic utilization of the various screen stencils. |

| GC 20A | COMMERCIAL DESIGN | 3 |
| Prerequisites: Eligibility for English 1 or consent of instructor |
| 2 hours lecture, 3 hours laboratory weekly. |
| Emphasis on typographic design and experimental media as they affect Graphic Communications. Includes logotype concepts, letterheads, poster design, book jackets, magazine and book layout. Accepted for credit, Cal Poly SLO |

| GC 21 | LETTERING AND TYPOGRAPHY | 2 |
| Prerequisites: Eligibility for English 1 or consent of instructor |
| 1 hour lecture, 3 hours laboratory weekly. |
| Basic lettering with pen and brush; contrived letters in Gothic, Roman, Italic, Script, Text and Modern type faces. Emphasis on essentials underlying character form and distribution on the pages for layouts. Accepted for credit, Cal Poly SLO |

| GC 22A-B | DIRECTED STUDIES IN GRAPHIC COMMUNICATIONS | 1-3 / 1-3 |
| Prerequisites: A course in the specific field and the consent of division chairman |
| 1-3 hours tutorial weekly. |
| Designed for selected students who are interested in furthering their knowledge of graphic communications on an independent study basis. Assigned problems will involve library, laboratory and field. Maximum of 6 units. |

| GC 23A | ADVERTISING DESIGN | 2 |
| Prerequisites: Eligibility for English 1 or consent of instructor |
| 1 hour lecture, 3 hours laboratory weekly |
| Experiences in rendering, lettering, type specifications and figure indication which lead into advertisement layouts and their transition into pasteup and camera-ready art. Comprehensive presentations; flat ads; packaging; point-of-sale displays; development of a photographic unit. |
GC 24A - PERSPECTIVE AND RENDERING
Prerequisites: Eligibility for English 1 or consent of instructor.
1 hour lecture, 3 hours laboratory weekly.
Study of one-, two-, and three-point black and white perspective drawing of objects; shading, free-hand sketching; and rendering. Media shall include pen and pencil.
2 Units

GC 49 A-B - DIRECTED WORK EXPERIENCE IN GRAPHIC COMMUNICATIONS
Prerequisites: Consent of instructor.
5 - 15 hours laboratory weekly.
On-the-job training for students under the supervision of instructor and employer in the field of Graphic Communications.
1-3 Units

HEALTH SCIENCE

HS 1 - HEALTH AND SOCIETY
Prerequisites: None
2 hours lecture weekly.
Consideration of the nature and function of health in our social pattern.
An analysis of major health problems designed to contribute to the student’s understanding of his role as an individual and as a contributing member of the community’s efforts to implement the advances of medicine and the health sciences.
Equivalent to Health 120, SFVSC.
2 Units

HS 4 - FAMILY HEALTH AND HOME NURSING
Prerequisites: None
3 hours lecture weekly.
This course consists of studying recent national trends in family health, identification and treatment of common diseases in the home, equipment, foods, and first aid methods for treating diseases, drug use, accidents and conditions involving handicapped individuals and pregnancy; and methods of preventive care against diseases in families.
Co-number: HE 28.
Accepted for credit, SFVSC.
3 Units

HS 5 - SAFETY AND FIRST AID
Prerequisites: None
2 hours lecture weekly.
The development of positive attitudes toward safety and the application of the concepts of “What constitutes safe living,” the prevention of shock, unconsciousness, poisons, fractures, dressings and bandages, care and treatment of athletic injuries. Successful completion of this course qualifies for the standard or the advanced “American Red Cross First Aid to the Injured” certificate.
Equivalent to Health 160, SFVSC.
2 Units

HS 6 - THE TRAINER & ATHLETIC INJURIES
Prerequisites: None
1 hour lecture, 3 hours laboratory weekly.
An introductory course in the basic concepts and skills of the Athletic Trainer. Training room practice, medical aspects of Athletic Training, athletic therapy modalities, strength, conditioning and rehabilitation and diagnostic techniques. Practical experience is provided in taping and for the prevention and care of the athletically injured.
2 Units

HISTORY

Hist 1A - AN INTRODUCTION TO WESTERN CIVILIZATION* 3 Units
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
A survey of important events and developments in western civilization from prehistory through the sixteenth century; readings and discussions on important ideas, institutions, and contributions.
*(F) This course may be counted for Social Science or Humanities State College General Education requirements.
Equivalent to History 150, SFVSC.
Accepted for credit UC (all branches)

Hist 1B - AN INTRODUCTION TO WESTERN CIVILIZATION* 3 Units
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
A survey of important events and developments in western civilization from the seventeenth century to modern times; continued readings and discussions on important ideas and institutions.
*(F) This course may be counted for Social Science or Humanities State College General Education elective credit.
Equivalent to History 151, SFVSC.
Accepted for credit UC (all branches)

Hist 3 - AFRO-AMERICAN HISTORY
Prerequisites: None
3 hours lecture weekly.
Analysis of the history of the Negro in the United States, with special emphasis on contemporary implications on historical events. This course points out the major roles played and contributions made both collectively as a people and as specific individuals in the development of the United States of America.
Accepted for credit, SFVSC.
Accepted for credit, UC (all branches)

Hist 4 - HISTORY OF THE MEXICAN PEOPLE IN THE SOUTHWEST
Prerequisites: Satisfactory score on placement test or consent of instructor.
3 hours lecture weekly.
A survey of the history of the Mexicanos from the pre-Columbian period to the present. Emphasis will be on the Mexican settlement of the region and the contributions of the Mexicanos to the development of the five Southwestern states (Arizona, California, Colorado, New Mexico and Texas).
(F,S)
(Co-numbered MÀS 4)
Accepted for credit, UC (all branches)

Hist 5 - UNITED STATES HISTORY
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
Introduction to important problems, persons, and developments of the major periods of American history; thematic, problematic, and interpretative rather than factual approach.
This course, which satisfies graduation requirements in U.S. history, is not open to students electing Hist 7A-7B; a student may not earn credit in both Hist 5 and Hist 7A-7B. (F)
Accepted for credit, SFVSC.
Accepted for credit, UC (all branches)

Hist 7A - SOCIAL AND POLITICAL HISTORY OF THE UNITED STATES
3 Units
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
Survey of the creation and development of American Society to 1865.
Analysis of the impact of both individuals and groups; evaluation of issues of religion, race, reform, revolution, responsive government, sectionalism, and expansion.
(F,S)
Equivalent to History 270, SFVSC.
Accepted for credit, UC (all branches)

Hist 7B - SOCIAL AND POLITICAL HISTORY OF THE UNITED STATES*
3 Units
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
Political and social adjustment following the Civil War, growth of the West, emergence of America as an industrial and world power, Progresivism, developments of the Twenties and New Deal, World War II, the Truman, Eisenhower, and Kennedy years. The year sequence is required for history majors and recommended for other students who want a thorough survey of the political and social development of the United States; either semester may be taken independently. (F, S)
Equivalent to History 271, SFVSC.
Accepted for credit, UC (all branches)

Hist 8 - HISTORY OF CALIFORNIA
3 Units
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
A survey of the Indian, Spanish, Mexican, and American periods of California with consideration of political and cultural developments.
Accepted for credit, SFVSC.
Accepted for credit, UC (all branches)

*Hist 9A - HISTORY OF THE AMERICAS
3 Units
Prerequisites: Satisfactory score on placement test or consent of instructor.
3 hours lecture weekly.
A study of Spanish, Portuguese, French and English conquest, exploration and colonization of the new world, and the main developments in Colonial life in each area up to independence.
(F)
Accepted for credit, UC (all branches)

*Hist 9B - HISTORY OF THE AMERICANS
2 Units
Prerequisites: Satisfactory score on placement test or consent of instructor.
3 hours lecture weekly.
A study of the comparative development of the American nations since independence, considering their constitutions, leadership, religions, relations with each other, and their adjustment to the principle of democracy.
(S)
Accepted for credit, UC (all branches)

*Hist 9A and Hist 9B combined are equivalent to History 161, SFVSC.
Hist 10A-B - AFRICAN HISTORY 3-3 Units
Prerequisites: Satisfactory score on placement test or consent of instructor.
3 hours lecture weekly.
A survey of African history with attention given to social and economic as well as political aspects of the development of indigenous cultures and the colonial experience.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Hist 15A-B - INTRODUCTION TO THE HISTORY OF ASIA 3-3 Units
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
Survey of the countries and cultures of Asia and their contact with the Occident; first semester emphasis on the nineteenth century, and second semester emphasis on the twentieth century.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Hist 22AB - DIRECTED STUDIES IN HISTORY 1-3 Units
Prerequisites: A course in the specific field with a recommending grade and consent of instructor and Division Chairman.
1-3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of history on an independent study basis. Assigned problems will involve library and field work.
3 units maximum credit, SFVSC
Maximum credit, one course, UC (all branches)

HOME ECONOMICS

HE 3 - HOME MANAGEMENT 2 Units
Prerequisites: None
2 hours lecture weekly.
A study of management and efficient use of time, energy, and materials within the home. Designed to enable the student to plan utilization of resources in terms of goals of families and their individual members. (F)

HE 4 - HOUSEHOLD EQUIPMENT MANAGEMENT LABORATORY 1 Unit
Prerequisites: None
3 hours laboratory weekly.
Selection, use, care and maintenance of materials, surfaces, and mechanical equipment used in the home. Emphasis on selection and experimental testing of equipment and materials.
Accepted for credit, SFVSC

HE 5 - INTERIOR DECORATING 3 Units
Prerequisites: None. Art 44 is recommended.
3 hours lecture weekly.
Principles and elements of design and color as applied to home interiors. Materials, organization, and arrangement as related to living needs. Offers basic preparation for students who plan to seek employment in the field of interior design. Field trips will be required. (S)
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

HE 10 - NUTRITION 3 Units
Prerequisites: None
3 hours lecture weekly
A study of foods in relation to body needs with emphasis on better health through improved eating habits. Designed to enable students to plan diets for family members of all ages. (F,S)
Equivalent to HE 207, SFVSC
Accepted for credit, UC (all branches)

HE 11 - FOOD PREPARATION 3 Units
Prerequisites: HE 10 (or concurrent)
2 hours lecture, 3 hours laboratory weekly.
Selection and preparation of standard food products. Use of imagination is stressed. Students will gain experience in different kitchen environments such as: gourmet, bachelor, young homemakers, apartment and family.
Equivalent to HE 208, SFVSC

HE 14 - BACHELOR FOODS 3 Units
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly.
Manly pursuits into the field of food preparation. Creativity, space-age cooking, use of "special" ingredients, and barbecue cooking stressed. Practical meal preparation as well as gourmet cooking. Available to male students only.

HE 15 - COOKING CREATIVELY 3 Units
Prerequisites: Food preparation course in high school or college recommended.
2 hours lecture, 3 hours laboratory weekly.
Use of imagination in preparation of foods and in meal planning. Use of special ingredients stressed, such as cooking with wine, herbs and spices. Experience in dinner preparation from hors d’oeuvre through desserts.
HE 16 – FOREIGN FOOD COOKERY 3 Units
Prerequisites: Food preparation course in high school or college recommended.
2 hours lecture, 3 hours laboratory weekly.
Techniques and concepts involved in preparation of foods characteristic of foreign countries. Students will gain experience in preparation of foods characteristic of Mexico, Italy, France, Spain, Germany, China, and Japan.

HE 22A-B - DIRECTED STUDIES IN HOME ECONOMICS 1-3/1-3 Units
Prerequisites: A course in the specific field and the consent of the instructor and Division Chairman.
1-3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of home economics on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.
3 units maximum, SFVSC

HE 26 – FAMILY HEALTH AND HOME NURSING 3 Units
Prerequisites: None
3 hours lecture weekly.
This course consists of studying recent national trends in family health, identification and treatment of common diseases in the home; equipment, foods and first aid methods for treating diseases, drug use, accidents and conditions involving handicapped individuals and pregnancy; and methods of preventive care against diseases in families. (Core: HS 4)
Equivalent to HE 170, SFVSC

HE 30 - APPAREL SELECTION AND GROOMING 3 Units
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly.
Applications of the principles of design and color harmonies in selection of clothing. Wardrobe and personal grooming and analysis is coordinated pertaining to individual skeletal structure, personality and individual requirements. Exercise and physical movement analysis are integrated into the course with students receiving physical education credit.
Equivalent to HE 161, SFVSC

HE 31 - TEXTILES 2 Units
Prerequisites: None
2 hours lecture weekly.
A study of textile fibers, their construction, characteristics, finishes, uses and care. Designed to give a basic knowledge of textiles which will help the student in selecting and caring for textiles. (F,S)
Accepted for credit, UC (all branches)

HE 32 – CLOTHING CONSTRUCTION 3 Units
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly.
Psychological, sociological aspects of clothing, clothing construction with emphasis on the commercial pattern, relationship of fabric to design, care of clothing, construction techniques and basic fitting. (F)
Equivalent to HE 162, SFVSC
Accepted for credit, UC (all branches)

HE 35 - FLAT PATTERN DESIGN 3 Units
Prerequisites: HE 32 or consent of instructor, HE 31
(May be taken concurrently)
2 hours lecture, 3 hours laboratory weekly.
Principles and techniques of constructing the basic pattern, original design and construction of a garment using flat pattern methods. Designed to enable the student to create original patterns and garments of appropriate fabrics.
Accepted for credit, UC (all branches)

HE 36 - ADVANCED PATTERN DESIGN 3 Units
Prerequisites: HE 35 or consent of instructor
2 hours lecture, 3 hours laboratory weekly.
Designing patterns of any style quickly and accurately. Stress on development of creative ability and quality craftsmanship.

HE 37 – TAILORING 3 Units
Prerequisite: HE 32 or consent of instructor
2 hours lecture, 3 hours laboratory weekly.
Selection and construction of garments requiring tailoring techniques. Designed to enable the student to select and construct tailored garments of high quality.

HE 39 - CREATIVE STITCHERY 3 Units
Prerequisites: None
1 hour lecture, 3 hours laboratory weekly.
The course would stimulate the creativity of women to design and make handcrafted items for their homes and family and teach the skills required for making and designing these items. Included will be projects in burlap stitchery, needlepoint, patchwork, quilting, doll making, doll clothes tips, crewel stitchery, macrame, crocheting, and decopage.

35
HE 49A-B - DIRECTED WORK EXPERIENCE IN HOME ECONOMICS
Prerequisites: Consent of instructor and Division Chairman
5 - 15 hours laboratory weekly
On-the-job training for students under the supervision of instructor and employer; An introduction to policies, program practices, and procedures in specific fields. Maximum of 6 units.

HE 51A-B-C - INSTITUTE IN CONSUMER EDUCATION
Prerequisites: None
16 hours lecture each unit

HOTEL AND RESTAURANT

H&R 1 - HOTEL & RESTAURANT ORIENTATION
Prerequisites: None
1 hour lecture weekly.
A lecture course on the organization and job potential of various types of food service establishments. An understanding of the education and experience required of the job positions available from top management down to kitchen helpers.

H&R 10A-B - QUANTITY FOOD PREPARATION
Prerequisites: None
1 hour lecture, 9 hours laboratory weekly
10A - Basic first course for students interested in quantity food preparation. Provides an introduction to the proper handling of kitchen tools and equipment; also experience in preparing light foods for the public.
10B - Advanced principles and application of quantity food preparation and service in hotels and restaurants; personnel organization and supervision.

H&R 11 - RESTAURANT OPERATIONS
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly.
Principles and practice of operating a restaurant. Covers such areas as location, organization, capital, equipment standards and labor. Experience is given in operating different areas in the cafeteria.

H&R 12 - MENU PLANNING
Prerequisites: None
1 hour lecture weekly.
Examines the basic principles of menu making. Consideration is given to all phases of menu planning, merchandising and control. Factors affecting the planning of a menu will be discussed, including types of operation, seasons of the year, clientele, equipment, and personnel available.

H&R 14 - FOOD PURCHASING
Prerequisites: H&R 11, 10A and 10B
3 hours lecture weekly.
This course provides training in the duties, organization, and policies of the purchasing function in a hotel and restaurant establishment. Instruction is given in the proper techniques for purchasing of foods, food standards and appropriate legislation, comparative and competitive buying of meats, staples, vegetables and canned and frozen foods.

H&R 15 - HOTEL AND RESTAURANT SANITATION
Prerequisites: None
1 hour lecture weekly.
This course provides training in the safe and sanitary operation of a food service establishment. In particular, emphasis will be placed on costs, organization, personnel practices, and public regulations concerning sanitation, hygiene, safety, inspection, and grading.

H&R 16 - BEGINNING BAKING
Prerequisites: None
3 hours laboratory weekly.
This course provides instruction to students in the methods and procedures involved in preparing, baking, and decorating a variety of bakery products, including breads, cakes and pastry.

H&R 17 - INSTITUTIONAL FOOD SERVICE
Prerequisites: H&R 11
1 hour lecture, 6 hours laboratory weekly.
Principles of operating an Institutional Food Service, a lecture-laboratory situation teaching organization, administration, policies, financing and control.

H&R 19 - FOOD & BEVERAGE COST CONTROL
Prerequisites: H&R 11, H&R 10A and 10B
3 hours lecture weekly.
The basic principles and procedures of effective food and beverage cost control. Sufficient information to enable the students to gain a firm understanding of these principles so he can adapt them to any food and beverage operation.

H&R 19 - FOOD AND BEVERAGE MANAGEMENT AND SERVICES
Prerequisites: H&R 10A, 10B and 11
3 hours lecture weekly.
The material in this course is designed to familiarize the student with principles and procedures that have been proven in actual operations. Sufficient background information will be provided to help the student obtain a good grasp of these so that he may apply them most readily to present and future situations.

H&R 22A-B - DIRECTED STUDIES IN HOTEL AND RESTAURANT MANAGEMENT
Prerequisites: A course in the specific field and the consent of the instructor and Division Chairman.
1-3 hours tutorial weekly.
Selected students who are interested in furthering their knowledge of Hotel and Restaurant Management on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.

H&R 49A-B - DIRECTED WORK EXPERIENCE IN HOTEL AND RESTAURANT MANAGEMENT
Prerequisites: Consent of instructor and Division Chairman
5-15 hours laboratory weekly.
On-the-job training for students under the supervision of instructor and employer. An introduction to Hotel and Restaurant Management policies, programs, practices, procedures and operations. Maximum of 6 units. (F, S)

HUMANITIES

Hum 1A-B - MAN-IN-SOCIETY
6-6 Units
Staff: Taylor Klose, Team Leader; John Davies, James Hannon, Maxine Tallman
Prerequisite: None
5 hours lecture, 3 hours laboratory weekly.
A general education course designed to increase the student's understanding of the key issues in the social sciences, literature, and the arts. This course is intended to help the student become more aware of his heritage and of the world in which he lives, to make him better able to master his freedom and responsibility in a democratic society, and to improve his skills in oral and written communication.

The class meets for two large group hour-and-a-half presentations consisting of a series of lectures, illustrated talks, films, slide presentations and panel discussions. Each large group presentation is followed by a small discussion section. In conjunction with the discussion section, the student completes 51 hours of laboratory work per semester. This is made up by attendance at plays, lectures, films, political and social events. A field trip is required. Tutorials are scheduled with the faculty members and listening experiences will be scheduled in the Audio-Visual section.

Humanities 1A-B fulfills the A.A. degree graduation requirements in American Institutions, Fine Arts, and English Composition. Acceptable as General Education elective if student successfully completes, in addition, English 1 and a basic course in Social Sciences.

36
Hum S A - U.S. CULTURE & SOCIETY 9-9 Units
Staff: Stephen Herzog, team leader; Jon Popiel, Darlene Pacheco, Ken Buckner.
Prerequisites: Satisfactory score on placement test 9 hours lecture weekly.
A survey of the roots, development, and forms of U.S. civilization. Immersion in an intense program of reading, discussion, analysis, viewing, listening and expression. The series of contexts, enriched by the concurrent presentation of various disciplines, especially history, political science, and literature, is organized around characteristic American themes and problems. The course units past and present for brief periods in which the student recreates important social and artistic developments, and in this personal recreation acquires an understanding of them. An exploration of the American consciousness in letters: aspirations, ideals, agonies, and conquests voiced from the black and white shores of New England to the sudden gold and oil of the West and again on the bordering areas. A probing of the American consciousness manifested in values, institutions, and conflicts. Emphasis will be on subjects such as the role of religion, the role of the military, the role of industry, the American dream, minority-majority relations, war and diplomacy, city vs. country, machine vs. nature, individual vs. authority, politics and participation.
This course, in its first semester, meets three units of credit for Sociology 1, 3 units for English 1 and 3 units for Psychology 2; in the second semester, it will meet three units of credit for Sociology 2, 3 units for English 1 and 3 units for Psychology 3. Not offered Academic Year '72-'73. Accepted for credit, SFVSC Accepted for credit, UC (all branches)

Hum 6 - ART AND THE WRITTEN WORD 6 Units
Staff: Pam Sheridan
Prerequisites: Eligibility for English 1 6 hours lecture weekly
The course will focus upon the relationship between language and the audio-visual arts. Students will examine selected works in various media, such as language, graphics and film, with a view toward exploring the nature of art. A primary goal of the course will be to introduce students to the basic vocabulary and tools of the fine arts including language and to encourage them to use these tools for interpretation and expression. Not suggested for Art majors. Students will receive 3 units of credit in English 1 and 3 units of credit in Art 2. Accepted for credit, UC (all branches) Accepted for credit, SFVSC

Hum 7 - ARTS AND MAN 5 Unit
Staff: Alan Hyman and Linda Moore
Prerequisites: Eligibility for English 1 4 hours lecture, 2 hours laboratory weekly
Relating a variety of themes concerning the performing arts with an emphasis on the musical. Content will include form, style, rhythm and other perceptions of new arts. Students will examine these activities as both a participant and spectator. Compositional experiences will also be included. Course equivalent for 1½ units of English 1; 3 units of Music 8; ½ unit P.E. Accepted for credit, SFVSC

Hum 8 - LITERATURE AND MUSIC 6 Units
Staff: Richard Edwardson
Prerequisites: Eligibility for English 1 6 hours lecture weekly
Exploration of relationships between literature and music. This course will emphasize in particular the usage which writers have made of music, and the uses which composers have made of literature. The works of such men as Shakespeare, Beethoven, Dylan, Wordsworth, Mozart, Purcell, Handel and the writers of the Holy Bible, will be studied, as well as important aesthetic movements such as classicism and romanticism. Students will be expected to write regularly; extensive use of recorded musical performances will be made. (Students will receive 3 units of credit in English 1 and 3 units of credit in Music 8.) Accepted for credit, UC (all branches) Accepted for credit, SFVSC

Hum 11 - MEDITATION 1 Unit
Prerequisites: None 2 hours lecture weekly
Analysis and practice in meditative procedures and techniques. A practical approach to increasing awareness through traditional exercises and methods of concentration.

Hum 12 - LITERATURE & PRACTICE OF TAI CHI CHUAN 2 Units
Prerequisites: None 1 hour lecture, 3 hours laboratory weekly.
Tai Chi Chuan is an ancient Chinese system of isometric dance forms consisting of 108 movements carried out in a slow, continuous, rhythmic sequence inducing health, relaxation and peace of mind. Selections from classical Chinese literature will be read showing the important role Tai Chi Chuan has played in Chinese culture and the psycho-medicinal arts. In the Laboratory portion of the course the actual dynamic movements of Tai Chi Chuan will be learned and practiced. 1 unit of P.E. 1 unit of literature.

Hum 15 - MODES OF EXPRESSION 6 Units
Prerequisites: Eligibility for English 1 6 hours lecture weekly
Exploration of various modes and styles of communication. The primary focus will be on music and literature, with limited exploration of theatre, art and film. Students will receive 3 units of credit in English 1 and 3 units of credit in Music 8. Accepted for credit, UC (all branches) Accepted for credit, SFVSC

Hum 22A-B - DIRECTED STUDIES IN HUMANITIES 1-3 Units
Prerequisites: A course in the specific field with a recommending grade and consent of instructor and Division Chairman 1-3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of Humanities on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.

JOURNALISM
Journ 1 - MASS COMMUNICATIONS 3 Units
Prerequisites: None 3 hours lecture, 1 hour laboratory weekly.
This course will acquaint the student with the origins, development and contemporary role of newspapers, magazines, cinema, radio, TV, and related fields such as advertising and public relations. Will survey the history and the application of mass communications. The course will also involve related critical and practical applications of this information. (Co-Number Broad 1)

Journ 2 - NEWS REPORTING AND WRITING 3 Units
Prerequisite: None. 2 hours lecture, 3 hours laboratory weekly.
An introduction to journalism with an emphasis on developing news writing skills through interviewing, reporting, evaluation of news significance, collection of accurate facts, and writing of news copy. Practical experience is gained through writing for the school newspaper. (F.S) Equivalent to Journ 110, SFVSC

*Journ 3 - FEATURE WRITING 3 Units
Prerequisite: None. 2 hours lecture, 3 hours laboratory weekly.
The writing of feature articles as used in magazine and newspapers, including the techniques used in gathering material. Practical experience given through writing for the school newspaper and magazine. (F.S)
Journ 7. LAYOUT & DESIGN TECHNIQUES
3 Units
Prerequisites: None.
3 hours lecture and 3 hours laboratory weekly.
Fundamentals of layout and design for graphic reproduction including the principles of design, and the techniques of layout and paste-up. Preparation of line and copy copy for offset reproduction. Designing graphics and visuals and preparation of simple and multicolor mechanisms for use in commercial and publication printing. Study of the point system, type identification and copy mark-up systems. (Co-number GC 41)

Journ 8. BASIC PHOTO-JOURNALISM
3 Units
Prerequisites: Photo 1A, Photo 1B, or suitable portfolio and consent of instructor.
2 hours lecture, 3 hours laboratory weekly.
A study of photography as applied to mass communication broadcast and print journalism. Concentration on the translation of ideas to images for reproduction in magazines, newspapers and book illustrations. Special effects and the utilization of color and light as creative tools. Basic motion picture techniques. (Co-number Photo 81)

Journ 10A-B. NEWSPAPER PRODUCTION
3 3 Units
Prerequisites: Journ 1, Journ 2 or consent of instructor
2 hours lecture, 3 hours laboratory weekly.
This is a course in the concept, development, layout and composition of newspapers. Particular emphasis is given to the practical aspects of all phases of newspaper production. Instruction is also given in the graphic arts. (Co-number 10B, SFVSC)

Journ 11A-B. MAGAZINE EDITING
3 3 Units
Prerequisites: Journ 1, Journ 2 or consent of instructor
2 hours lecture, 3 hours laboratory weekly.
This is a course in the analysis, development, composing and layout of magazine-type publications. Emphasis is given to coordinating feature stories and related articles with attractive pictorial displays. Instruction is also given in the graphic arts as related to the magazine production. (Co-number 11A, SFVSC)

Journ 22A-B. DIRECTED STUDIES IN JOURNALISM
1 1/3 Units
Prerequisites: A course in the specific field and the consent of the instructor and Division Chairman.
1 3 hours tutorial weekly.
Designed for selected students who are interested at furthering their knowledge of journalism on an independent study basis. Assumed problems and flexible library, laboratory, and field work. Maximum of 6 units. (Co-number 22A, SFVSC)

LEADERSHIP

Life 1A. PRINCIPLES OF LEADERSHIP
1 Unit
Prerequisites: None.
1 hour lecture, 1 hour practicum weekly.
The development of effective group leadership through an understanding of the basic tenets of parliamentary procedure. Practical application of parliamentary procedure in the group situation will be emphasized. (Accepted for credit SFVSc)

Life 1B. PRINCIPLES OF LEADERSHIP
1 Unit
Prerequisites: None.
1 hour lecture, 1 hour practicum weekly.
The identification of effective leadership and its development as it relates to the rights and responsibilities of the individual, effective leadership through the understanding of group dynamics. (Accepted for credit SFVSc)

LIBRARY TECHNOLOGY

LT 1. INTRODUCTION TO LIBRARY TECHNOLOGY
3 Units
Prerequisites: None.
3 hours lecture weekly.
For students desiring to develop skills in the use of libraries. Includes a study of library tools such as indexes, bibliographies, encyclopedias, dictionaries, arrangement and use of card catalogs, book catalogs, history of libraries, books and printing. (Co-number 1, SFVSC)

LT 2. LIBRARY CIRCULATION PROCEDURES
3 Units
Prerequisites: LT 1 or consent of instructor
3 hours lecture, 2 hours laboratory weekly.
A study of all aspects of library circulation work, including loans of materials, processing of reserved materials, shelving, shelf-reading, preparation of books and periodicals for binding, fine collection and record keeping, putting books on reserve, and other item procedures and services. (Co-number 2, SFVSC)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT 3</td>
<td>ADVANCED LIBRARY CLERICAL TECHNIQUES</td>
<td>3</td>
<td>LT 1 and LT 2 or consent of instructor</td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 3 hours laboratory weekly</td>
<td></td>
<td>Study of procedures and techniques in book ordering, book preparation for the shelves, and elementary cataloging and classification. (F)</td>
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<tr>
<td>LT 4</td>
<td>AUDIO-VISUAL CLERICAL TECHNIQUES</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 3 hours laboratory weekly</td>
<td></td>
<td>Study of the functions of audio-visual equipment and materials and their use; procedures used in the purchasing, rental and scheduling of films, slides, transparencies, tapes, recording and other audio-visual items. (E)</td>
</tr>
<tr>
<td>LT 5</td>
<td>AUDIO-VISUAL FOR THE LIBRARY</td>
<td>2</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>2 hours lecture weekly</td>
<td></td>
<td>Study of the functions of audio-visual equipment and materials and their use; procedures used in the purchasing, rental and scheduling of films, slides, transparencies, tapes, recording and other audio-visual items. Not open to students completing LT 4.</td>
</tr>
<tr>
<td>LT 6</td>
<td>CHILDREN'S LITERATURE</td>
<td>3</td>
<td>None</td>
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<tr>
<td></td>
<td>3 hours lecture weekly</td>
<td></td>
<td>Study of the books, periodicals, and other library materials suitable for children of the elementary school age. Reference books suitable for the lower grade, picture books, fiction, non-fiction, folk tales, story telling, books made into films and other materials will be examined in depth. (F,S)</td>
</tr>
<tr>
<td>LT 40</td>
<td>LIBRARY INTERNSHIP</td>
<td>2-3</td>
<td>LT 1 or equivalent consent of instructor</td>
</tr>
<tr>
<td></td>
<td>1 hour lecture, 3-6 hours laboratory weekly</td>
<td></td>
<td>Supervised work in an approved library. (F,S)</td>
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</tbody>
</table>

**MATHEMATICS**

Math 1A-8 - ELEMENTARY ALGEBRA

Prerequisites: Math 9C or high school general math
5 hours lecture weekly.
Student will simultaneously enroll in both Math 1A and 1B.
Math 1A - The real numbers, their properties and operations, linear equations and inequalities, linear systems, and operations with polynomials.
Math 1B - Techniques of factoring, roots and radicals, more rational numbers and rational expressions and the quadratic equation.
3-2 Units

Math 2 - FUNDAMENTALS OF GEOMETRY

Prerequisites: Math 1B or one year of high school algebra
4 Hours lecture weekly.
Selected topics including lines, parallel and perpendicular lines, properties of triangles, congruence and similarity of triangles, polygons, circles, coordinate systems, planes, surfaces and areas, spheres, cylinders, volumes, 3-dimensional coordinate systems, elementary triangle trigonometry. (F,S)
3 Units

Math 3 - INTERMEDIATE ALGEBRA

Prerequisite: Math 1B (Math 2 may be taken concurrently)
or one year of high school algebra
4 Hours lecture weekly.
Real numbers, fundamental operations, factoring, fractions, linear equations and inequalities, exponents and radicals, graphs, quadratic equations, sequences and series, exponential and logarithmic functions, probability. Equivalent to second year high school algebra. (F,S)
Accepted for credit, SFVSC
2 Units

Math 7 - COLLEGE ALGEBRA AND TRIGONOMETRY

Prerequisites: Math 2 and Math 3 or plane geometry and one and one-half year of high school algebra
5 hours lecture weekly.
An integrated course in college algebra and trigonometry designed to prepare the student for calculus with analytic geometry. Real number systems, sets, inequalities, systems of equation and inequalities, matrices and determinants, functions and relations, circular functions, trigonometric functions and applications, inverse relations, complex numbers, exponential and logarithmic functions, theory of equations, sequences and series, mathematical induction and binomial theorem. (F,S)
Equivalent to Math 106, SFVSC
Maximum of 3 units, UC (all branches)
5 Units

Math 9A-BC - FUNDAMENTALS OF MATH

Prerequisites: None
3 Units
2 hours lecture weekly.
Student will enroll simultaneously in 9A, 9B, and UC.
Math 9A - Review of addition, subtraction, multiplication and division of whole numbers, prime numbers, and prime factors, introduction to exponential notation, operations with fractions and mixed numbers, use of fractions in ratio and proportion.
Math 9B - Decimal fractions, operations with decimal fractions, relation to common fractions, rounding off, scientific notation. Measurement - units of length, area and volume - metric and English systems. Percent, commission, discount, taxes, solution of business problems.
3 Units

Math 10 - PRINCIPLES OF MATHEMATICS

Prerequisites: Math 1 and Math 2 or plane geometry and one year high school algebra. (Math 2 may be taken concurrently)
3 Hours lecture weekly.
Language of sets; systems of numeration; the nature of numbers and the fundamentals of operations; the domain of integers; the fields of rational, real and complex numbers. Will satisfy credential requirements for elementary and junior high teachers and/or general education option under basic studies. Not open to students majoring in the physical sciences or mathematics. (F)
Equivalent to Math 210, SFVSC
Accepted for credit, UC (all branches)
3 Units

Math 12 - COLLEGE ALGEBRA WITH BUSINESS APPLICATIONS

Prerequisites: Math 2 and Math 3 or plane geometry and one and one-half years of high school algebra
3 Hours lecture weekly.
Topics from college algebra and calculus with applications to problems in business and economics. Review of real number systems and simple algebra, set notation and simple manipulations, linear, quadratic, exponential and logarithmic functions, equations, inequalities, solutions of linear systems, operational vector and matrix algebra, introduction to differential and integral calculus, integrals, permutations, combinations and probability. Equivalent to Math 103, SFVSC
Accepted for credit, UC (all branches)
3 Units

Math 14 - FINITE MATHEMATICS

Prerequisites: Math 12 or Math 7 or plane geometry and two years of high school algebra
3 Hours lecture weekly.
For students of managerial, social, or behavioral sciences. Laws of deductive reasoning, the algebra of sets, partitions and counting, probability, the algebra of vectors and matrices, applications to linear programming and the behavioral sciences. Equivalent to Math 260, SFVSC
Accepted for credit, UC (all branches)
3 Units

Math 15 - INTRODUCTORY STATISTICS

Prerequisites: Math 3 or one and one-half years of high school algebra
4 Hours lecture weekly.
The Nature of Statistical Methods. The description of sample data, probability, theoretical frequency distributions, sampling, estimation, testing hypotheses, correlation, regression, special topics. Equivalent to Math 140, SFVSC
Accepted for credit, UC (all branches)
4 Units

Math 16A - APPLIED CALCULUS I

Prerequisites: Math 7 or Math 12 or two years of high school algebra
3 Hours lecture weekly.
This is the first semester of a short course in calculus. Topics include: algebra review; elements of analytic geometry; functions of one variable; graphing; limits; continuity; sequence; techniques of differentiation; the differential, maxima and minima; application to social science, biological science, economics, business administration, architecture and technology; introduction to integration. Equivalent to Math 226A, SFVSC
Accepted for credit, UC (all branches)
3 Units

Math 16B - APPLIED CALCULUS II

Prerequisites: Math 16A or Math 25A or one year of high school calculus
3 Hours lecture weekly.
A continuation of Math 16A. Topics include: definite, indefinite and improper integrals; logarithmic and exponential functions; trigonometric functions; techniques of integration; calculus in high dimension; introduction to differential equations; applications to social science, biological science, economics, business administration, architecture and technology. Equivalent to Math 256B at SFVSC
Accepted for credit, UC (all branches)
3 Units
Math 18 - COMPUTER PROGRAMMING-FORTRAN 3 Units
Prerequisite: Math 3 or one and one-half years of high school algebra
2 hours lecture, 2 hours laboratory weekly.
Familiarization with basic digital computer programming concepts.
Designed to introduce physical science, life science, social science, business, engineering and mathematics students to the computer in problem solving, emphasizing the use of FORTRAN language. (F,S) (co-number DP 18)
Equivalent to Math 281, SFVSC
Accepted for credit, UC (all branches)

Math 20 - INTRODUCTION TO NUMERICAL METHODS 3 Units
Prerequisites: Math 18 and Math 16A or Math 18 and Math 25A
3 hours lecture weekly
Error Analysis; Power Series Calculation of Functions; Roots of Equations; Nonlinear simultaneous equations; Matrices, Determinants, and linear simultaneous equations; numerical integration; interpolation and curve fitting. These numerical methods will be practically applied on the IBM 360 using FORTRAN IV. (co-number DP 20)
Accepted for credit, SFVSC

Math 22A-B - DIRECTED STUDIES IN MATHEMATICS 1-3/1-3 Units
Prerequisites: A course in the specific field with a recommending grade and consent of the instructor and Division Chairman
1-3 hours tutorial weekly.
For students who desire to do further work in the field of mathematics on an independent basis. Course will involve library work and study on selected problems pertinent to the student interest area.
Maximum of 3 units, SFVSC
One course maximum, UC (all branches)

Math 25A - CALCULUS WITH ANALYTIC GEOMETRY I 5 Units
Prerequisites: Math 7 with a grade of C or better, or two years of high school algebra and trigonometry
5 hours lecture weekly.
The real number system; elements of analytic geometry; functions, limits and continuity; differentiation and integration of algebraic and elementary transcendental functions with applications.
Equivalent to Math 16A at SFVSC
Accepted for credit, UC (all branches)

Math 25B - CALCULUS WITH ANALYTIC GEOMETRY II 5 Units
Prerequisite: Math 16B or Math 25A with a grade of C or better
5 hours lecture weekly.
Integration; vectors and operations with vectors in n-space; Cramer's Rule; complex numbers; partial differentiation; the gradient; multiple integration; curves in n-space; arc length, conic sections; polar coordinates.
Equivalent to Math 150B at SFVSC
Accepted for credit, UC (all branches)

Math 25C - CALCULUS WITH ANALYTIC GEOMETRY III 5 Units
Prerequisites: Math 25B with a grade of C or better
5 hours lecture weekly.
Introduction to differential equations, infinite sequences and series, Taylor's Theorem and the Calculus of several variables such as affine transformations, Jacob's Theorem, Green's theorem, Divergence Theorem and the theorem of Stokes.
Equivalent to Math 250, SFVSC
Accepted for credit, UC (all branches)

Math 30 - INTRODUCTION TO MODERN ALGEBRA 3 Units
Prerequisites: Math 25A and consent of instructor
3 hours lecture weekly
An introduction to set theory, mappings, the properties of the integers, finite groups and their structure.
Accepted for credit, UC (all branches)

Math 31 - INTRODUCTION TO LINEAR ALGEBRA 3 Units
Prerequisites: Math 25B and permission of instructor
3 hours lecture weekly.
Systems of linear equations, matrices, determinants, real vector spaces, linear transformations, eigenvector theory, with emphasis on understanding mathematical theory. Designed to prepare student for additional mathematical studies in upper division university courses. (S) Equivalent to Math 262, SFVSC
Accepted for credit, UC (all branches)

Math 33 - INTRODUCTION TO ANALYSIS 3 Units
Prerequisites: Math 25C and permission of instructor
3 hours lecture weekly.
Elements of real analysis and set theory with emphasis on attaining a thorough understanding of the basic concepts of set theory, algebra and topology of the real numbers, limits, continuity. (S) Accepted for credit UC (all branches)
Accepted for credit, SFVSC

Math 35 - APPLIED DIFFERENTIAL EQUATIONS 3 Units
Prerequisite: Math 25C and permission of instructor
(Math 31 or Math 33 may be taken concurrently)
3 hours lecture weekly
Linear differential equations, equations with constant coefficients, variation of parameters, Green's functions, Laplace transform, systems of linear equations, series solutions, first order differential equations, existence and uniqueness of solutions with emphasis on applications to physics and engineering. (S)
Equivalent to Math 280, SFVSC
Accepted for credit, UC (all branches)

Math 41A-B-C - MODERN SCHOOL MATH FOR PARENTS 1-1-1 Unit
Prerequisites: None
3 hours lecture (six weeks)
Study of selected topics from the Elementary school curriculum. Topics will be drawn from the state textbooks for Elementary schools. Ideas of sets, number systems, etc. will be studied.

Math 44 - BUSINESS MATHEMATICS 3 Units
Prerequisites: Math 98 or equivalent (may be taken concurrently)
3 hours lecture weekly.
A review of fundamental arithmetic and algebraic processes with application to business problems. Fractions, decimals, skills in areas of mark-up, discounts, interest installment debt and other business practices are presented. NOTE: This course meets the mathematics general education requirement for graduation. (Co-number Bus 44)

Math 45 - SLIDE RULE 1 Unit
Prerequisite: Math 2
1 hour lecture weekly.
The use of all 33 scales of a Log Log Decitrig Slide Rule; mathematical principles involved in the construction and use of the various scales. (Co-number Engr 46)
Accepted for credit, SFVSC

Math 48A-B-C-D - MATHEMATICS PRACTICUM 1-3 Units
Prerequisites: Math 3 (May be taken concurrently) and instructor approval
3-9 hours weekly in math learning center.
On-the-job training without financial compensation in the math learning center as an instructor aide under the continuous direction and supervision of a college mathematics instructor. Prior to enrollment in the course, the student must meet with a Math 81BC or Math 11AB instructor for approval and assignment to his class.

Math 49A-B-C-D - DIRECTED WORK EXPERIENCE IN MATH 1-3 Units
Prerequisites: Math 3 (May be taken concurrently) and instructor approval
5-15 hours weekly in math learning center.
On-the-job training with financial compensation in the math learning center as an instructor aide under the continuous direction and supervision of a college mathematics instructor. Prior to enrollment in the course, the student must meet with a Math 81ABC or Math 11AB instructor for approval and assignment to his class.

MEXICAN-AMERICAN STUDIES

MAS 1 - MEXICAN-AMERICAN IN CONTEMPORARY SOCIETY 3 Units
Prerequisite: Satisfactory score on placement test or consent of instructor.
3 hours lecture weekly.
An analysis of the socio-economic and political problems confronting the Mexican-American with emphasis on proposed solutions. Particular focus will be placed on the effects the social institutions have had on the Mexican-American community. Special emphasis will be placed on the school system. (This course will count toward Social Science or general education credit). (F) (Co-number Soc 6)
Accepted for credit, UC (all branches)
Equivalent to Chicano Studies 200, SFVSC

MAS 2 - MEXICAN-AMERICAN CULTURE 3 Units
Prerequisites: Satisfactory score on placement test or consent of instructor.
3 hours lecture weekly.
The social and cultural heritage of the Mexican-American, emphasizing middle American civilizations, and including the evolution of the Mexican-American from the Spanish conquest to present day America. The course is concerned with the contributions made by the Mexican-Americans to the United States, especially in the fine arts, literature, and orally transmitted heritage. (This course will count for elective credit in the Humanities area.) (Co-numbered Arth 41 or 42)
Accepted for credit, UC (all branches)
Equivalent to Chicano Studies 100, SFVSC
MUS 5 - SURVEY OF CONTEMPORARY MUSIC
2 Units
Prerequisites: None.
2 hours lecture weekly.
Design to present a comprehensive survey of jazz, rock, electronic and other styles of current music in the Los Angeles area. Student involvement and research in class presentations required. Accepted for credit, UC (all branches)

MUS 8 - MUSIC APPRECIATION
3 Units
Prerequisites: None.
3 hours lecture weekly.
Survey of musical history with special emphasis on the understanding and enjoyment of music; introduction to the formal principles employed in music.
Equivalent to Music 105, SFVSC
Accepted for credit, UC (all branches)

MUS 9A - MUSIC HISTORY AND LITERATURE
3 Units
Prerequisite: Satisfactory score on placement test.
3 hours lecture weekly.
This course traces the changes of style and the technique of music composition from Gregorian chant through such developments as medieval organum; the secular song and dance music of the Middle Ages and Renaissance; the polyphony of Du Fay, Josquin, Lassus, and Palestrina; the Italian and English madrigal; the Baroque and the concerto grosso through the 18th-Century contributions of Vivaldi, Handel, and Bach. The emphasis is on listening and analyzing for style characteristics and on the correlation of musical developments with those in the other arts of the time. Recommended for music majors.
Equivalent to Music 201A, SFVSC
Accepted for credit, UC (all branches)

MUS 9B - MUSIC HISTORY AND LITERATURE
3 Units
Prerequisite: Satisfactory score on placement test.
3 hours lecture weekly.
A study of the changing styles, techniques, and forms of music from the middle of the 18th Century to the present. Special emphasis is placed upon the artistic philosophy of each style period. Music is studied as one of the humanities, but interpretive consideration is also given to the analysis of style and form in its other musical works. Recommended for music majors.
Equivalent to Music 201B, SFVSC
Accepted for credit, UC (all branches)

*MUS 10 - CONCERT CHOIR
2 Units
Prerequisite: Consent of instructor
1 hour lecture, 3 hours rehearsal weekly.
The learning and performing of choral music for all interested men and women. The choir participates in musical events on campus and in the surrounding community.
Equivalent to Music 184, SFVSC

*MUS 11 - CHAMBER CHOIR
1 Unit
Prerequisites: Consent of instructor
3 hours laboratory weekly.
A choir which performs choral literature suitable for a smaller number of singers. Repertoire may include works of Renaissance composers to those of the modern and contemporary periods. Public performance is expected.

*MUS 12 - VOCAL ENSEMBLE
1 Unit
Prerequisite: Consent of instructor
3 hours rehearsal weekly.
A select group of singers who study and perform literature suitable for a small ensemble. Emphasis is placed on madrigal singing. Public performance is required.

MUS 13A - VOICE
2 Units
Prerequisite: None.
1 hour lecture, 2 hours rehearsal weekly.
Designed to begin development of the vocal potential, to lay a foundation for proper vocal production, and to correct faulty singing. Material will consist of song literature sung in English in addition to vocal exercises. Basically for non-music majors or for persons with little singing experience.

MUS 13B - VOICE
2 Units
Prerequisite: Mus 13A or consent of instructor
1 hour lecture, 3 hours rehearsal weekly.
A continuation in developing a proper vocal production. Material to be studied will consist of current English, Italian, German, French art songs. It is recommended that music majors begin their voice study with this class.

MUS 13C - VOICE
2 Units
Prerequisites: Mus 13B or consent of instructor
1 hour lecture, 2 hours rehearsal weekly.
A continuation of vocal development through the study of more difficult songs from contemporary composers such as Barber, Copland, Diamond, and traditional arias from Handel, Bach, Mendelssohn, and Mozart.
Mus 130 - VOICE IN OPERA WORKSHOP 2 Units
Prerequisite: Mus 13C or consent of instructor
1 hour lecture, 3 hours rehearsal weekly.
The study of song literature taken from the musical theater. The course work will consist of the studying and performing of opera and musical plays in excerpt or as a complete production. Class designed for singers with proven ability with interest in drama.

Mus 14 - MEN'S GLEE CLUB 2 Units
Prerequisites: Consent of instructor.
1 hour lecture, 2 hours laboratory weekly.
The study of proper vocal technique. The study and performance of choral music for the male voice.

*Mus 15 - ORCHESTRA 1 Unit
Prerequisite: Consent of instructor.
3 hours rehearsal weekly.
Preparation and performance of orchestral repertoire. Equivalent to Music 182, SFVSC

*Mus 18 - STAGE BAND 1 Unit
Prerequisite: Competence with a musical instrument
3 hours rehearsal weekly.
Reading, preparation and performance of music arranged for studio band.
Rehearsal for and performance of scheduled concerts is required. Equivalent to Music 180, SFVSC

*Mus 19 - CONCERT BAND 1 Unit
Prerequisite: Competence with a musical instrument
3 hours rehearsal weekly.
Rehearsal and performance of representative concert band literature.

*Mus 21 - BRASS ENSEMBLE 1 Unit
Prerequisite: Competence with a musical instrument
3 hours rehearsal weekly.
Study and performance of standard and modern compositions and arrangements for brass ensemble. Equivalent to Music 287, SFVSC

Mus 22A-B - DIRECTED STUDIES IN MUSIC 1-3/1-3 Units
Prerequisite: A course in the specific field and the consent of the instructor and Division Chairman.
1-3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of music on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units. Maximum of 3 units, SFVSC

*Mus 23 - WOODWIND AND STRING ENSEMBLE 1 Unit
Prerequisite: Competence with a musical instrument
3 hours rehearsal weekly.
Study and performance of standard and modern woodwind and string literature. Attendance at rehearsals and performances is required.

Mus 24A-B-C-D - PIANO 2-2-2-2 Units
Prerequisite: None for Mus 24A, 24A for 24B, 24B for 24C, 24C for 24D.
1 hour lecture, 3 hours rehearsal weekly.
24A - Fundamentals of piano playing, note reading, finger drill, scales and simple piano literature.
Equivalent to Music 132A, SFVSC
24B - Piano studies and techniques for steps two and three; continuation of scales and keyboard techniques.
Equivalent to Music 132B, SFVSC
24C - Piano studies and literature for students for fourth and fifth steps; scales and keyboard techniques.
Equivalent to Music 232A, SFVSC
24D - Emphasis on keyboard harmony and techniques; harmonization of melodies with different style accompaniments, transposition, improvisation of various forms, modulation, playing by ear, scales, chords, reading choral scores.
Equivalent to Music 232B, SFVSC

*Mus 26 - RECORDER ENSEMBLE 1 Unit
Prerequisite: Consent of instructor
3 hours rehearsal weekly.
The study and performance of music literature for a recorder flute ensemble of soprano, alto, tenor, and bass instruments. Combinations may include recorders, voices, harpsichord, or other early instruments.

Mus 27 - CHORAL CONDUCTING 2 Units
Prerequisites: Equivalent of Mus 1, Mus 2 or by permission of instructor
2 hours lecture, 1 hour laboratory weekly.
Basic conducting techniques; exploration of choral literature including style, performance, interpretation; conducting singing groups utilizing the research and techniques. (F,S) EVENINGS ONLY

Mus 28 - INSTRUMENTAL CONDUCTING 2 Units
Prerequisites: Equivalent of Mus 1, Mus 2 or by permission of instructor
2 hours lecture, 1 hour laboratory weekly.
Basic conducting techniques of various instrumental organizations; exploration of instrumental literature, including style, performance, interpretation. (F,S) EVENINGS ONLY

Mus 29 - INTRO TO AMERICAN FOLK MUSIC 3 Units
Prerequisite: None
3 hours lecture weekly
A survey of American folk and traditional music from early America to the present. Emphasis on listening to and analysis of different types of folk music, such as regional music, music of minorities, protest music, ballads, country music, etc. Study of various folk instruments, live performances, films and recordings.

Mus 32 - BEGINNING GUITAR 1 Unit
Prerequisite: None
3 hours laboratory weekly (6 weeks)
Theory and practice of the Guitar.

Course may be repeated for credit up to four times.
PERSONAL GROWTH

PG 1 - RAP FOCUS | 1/2 Unit
Prerequisites: None
3 hours seminar weekly (8 weeks)
Each semester different RAP sessions are offered with a variety of topics.
The topic for a specific RAP session is usually listed in the class schedule.

PG 2 - CAREER DEVELOPMENT | 1/2 Units
Prerequisites: None
3 hours lecture weekly (8 weeks)
A course designed to assist a student in becoming more aware of himself in
relationship to making an intelligent career choice. This will involve self-appraisal through testing and counseling, career exploration and the
identification of tentative career possibilities. The relationship between
personal and educational requirements versus employment and job require-
ments will be discussed.

PHILOSOPHY

Phil 1A-B. INTRODUCTION TO PHILOSOPHY | 3-3 Units
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
Philosophy 1A-B consists in a broad survey of the various problems and
positions of philosophy. In Philosophy 1A an attempt is made to clarify
the nature of the philosophic enterprise and to focus attention upon some of the
central issues of epistemology, metaphysics, and political philosophy.
Philosophy 1B deals mainly with the problems of moral philosophy, but also
involves the study of related views concerning the nature of man, society, and
the universe. Together these courses are designed to provide the student with
an understanding of a number of arguments and insights that should prove to
be helpful in the task of constructing an adequate philosophy of life. The two
courses are independent and may be taken concurrently.
Equivalent to Pli 150, 160, SFVSC
Accepted for credit, UC (all branches)

Phil 2 - INTRODUCTION TO LOGIC | 3 Units
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
Logic involves a study of the patterns of deductive and inductive thought.
The purpose of the course is to encourage the student to master the
techniques required to engage in clear, consistent, and cogent reasoning. An
attempt is made to review immediate, syllogistic, and extended forms of
deductive inference as well as arguments by analogy, inductive general-
izations, and scientific hypotheses. The emphasis of the course is practical
rather than theoretical; attention is directed towards an application of logical
techniques in the solution of everyday problems and in the appraisal of
the kinds of arguments that we daily encounter.
Equivalent to Phil 100, SFVSC
Accepted for credit, UC (all branches)

Phil 3 - COMPARATIVE RELIGIONS | 3 Units
Prerequisite: Satisfactory score on placement test
3 hours lecture weekly.
Philosophy 3 consists of a systematic study of the major religions of the
world. Hinduism, Buddhism, Jainism, Taoism, Confucianism, Zen, Zoroastrianism, Judaism, Christianity, and Islam are among the positions
reviewed. In each instance an attempt is made to learn to view the religion
from the standpoint of its proponents. The purpose is to promote a broader
understanding of the main similarities and differences among these outlooks
exhibited, and to acquire an appreciation of their historical connections.
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Phil 10 - CONTEMPORARY BLACK THOUGHT | 3 Units
Prerequisites: Satisfactory score on placement test
3 hours lecture weekly.
Philosophy 10 consists in a careful review of the ideas advanced by a
number of the more influential Black writers in this century. The purpose is
to promote an increased understanding of the problems and issues with which
they are concerned, and to investigate the solutions which they have
proposed. An attempt will be made to consider a variety of viewpoints while
concentrating attention on the more philosophical aspects of each position.
The authors studied will include: Fanon, Baldwin, King, Malcolm X,
Carmichael, Hamilton, and Cleaver.
Accepted for credit, SFVSC

Phil 11 - PSYCHOLOGY OF RELIGION - EAST AND WEST | 3 Units
Prerequisites: Satisfactory score on placement test
3 hours lecture weekly.
Discussion of the more provocative emphasis to be found, coherently, in
the Upanishads, Tao te Ching, Bhagavad-Gita, Dhammapada, and Old and

Phil 12 - RELIGION, VALUES, & PEAK EXPERIENCES | 3 Units
Prerequisites: Satisfactory score on placement test
3 hours lecture weekly.
The title of the late Abraham H. Maslow's widely distributed work serves as
a focus of inquiry for this course. Maslow's pioneering endeavors in "Third
Force Psychology" will be examined as well as his rise from an obscure
researcher to the President of the American Psychological Association. An
account will be given of crucial shifts made in metaphysical and psychological
emphasis as a result of the work of such men.

Phil 22A-B. DIRECTED STUDIES IN PHILOSOPHY | 1/3-1/3 Units
Prerequisites: A course in the specific field with a
recommend ing grade and consent of instructor and Division
Chairman
1-3 hours per semester weekly.
Designed for selected students who are interested in furthering their
knowledge of philosophy on an independent study basis. Assigned problems
will involve writing and research.
Maximum 3 units credit, SFVSC

PHOTOGRAPHY

Photo 1A - BEGINNING PHOTOGRAPHY | 3 Units
Prerequisites: None
2 hours lecture, 2 hours laboratory weekly.
A beginning course in photographic theory. Emphasis on photography as a
means of creative expression, including a study of the basic principles of
camera operation, exposure, developing and printing, basic color techniques.
Equivalent to Art 250, SFVSC

Photo 1B - BEGINNING PHOTOGRAPHY | 3 Units
Prerequisites: Photo 1A or consent of instructor on presentation
of portfolio
2 hours lecture, 2 hours laboratory weekly
An extension of the techniques learned in Photo 1A, with further study of
equipment and methods. 35 mm techniques and processes will be explored in
depth.

Photo 2 - BASIC COLOR | 3 Units
Prerequisites: Photo 1A, 1B or consent of instructor
2 hours lecture, 2 hours laboratory weekly
The principles of color photography, the use of correction filters...
processing of transparency materials - with emphasis on creative use of
special effects achieved by unique lighting, films and camera techniques
directed toward a more expressive visual statement. Experimental approach
encouraged.

Photo 4 - ADVANCED PHOTOGRAPHY | 2 Units
Prerequisites: Photo 1A or equivalent
1 hour lecture, 3 hours laboratory weekly.
An extension of the techniques learned in Photo 1, with further study of
equipment and methods; emphasis on composition and experimental ap-
proaches to design elements and principles.

Photo 8 - BASIC PHOTO-JOURNALISM | 3 Units
Prerequisites: Photo 1A, or suitable portfolio and consent of instructor
2 hours lecture, 3 hours laboratory weekly.
Aspects of photography as applied to mass communication - broadcast
and print journalism. Concentration on the translation of ideas to images for
reproduction in magazines, newspapers and book illustrations. Special effects
and the utilization of camera and light as creative tools. Basic motion picture
techniques. (Co-number Journ 8)
PHYSICAL EDUCATION

BEGINNING MEN'S ACTIVITIES

PE 1 - BEGINNING BODY CONDITIONING 1 Unit
Prerequisites: None
3 hours activity weekly
A course designed to increase the understanding of the principles of fitness and the development and maintenance of a high level of efficiency.

PE 2A-B - BEGINNING GYMNASTICS 1 Unit
Prerequisite: None
3 hours activity weekly,
PE 2A: Fall Semester—Emphasis on body balance, tumbling, trampoline, and introduction to apparatus.
PE 2B: Spring Semester—Emphasis on the development of proficiency in the elementary skills of apparatus.

PE 3A-B - BEGINNING TEAM SPORTS 1 Unit
Prerequisites: None
3 hours activity weekly
Techniques, strategies, rules of team sports in season, with opportunity to participate in the intramural program.
PE 3A: Fall Semester—flag football, volleyball, basketball.
PE 3B: Spring Semester—basketball, soccer, rugby, softball.

PE 4 - BEGINNING WRESTLING 1 Unit
Prerequisites: None
3 hours activity weekly
Introduction of wrestling as an educational medium which gives the student opportunity for self-expression. The student is taught take-downs, rides, escapes andfalls.

PE 6 - BEGINNING RUGBY 1 Unit
Prerequisites: None
3 hours activity weekly
Development of skill in playing rugby. The course covers rules and the fundamental skills of passing, running, kicking, and tackling. Offensive and defensive strategy is also included in the course.

PE 7 - BEGINNING SOCCER 1 Unit
Prerequisites: None
3 hours activity weekly
Development of skills in playing the game of soccer, including the rules, techniques and strategy of playing the game.

BEGINNING WOMEN'S ACTIVITIES

PE 10 - SELF-DEFENSE & BODY MECHANICS 1½ Units
Prerequisites: None
1 hour lecture, 2 hours activity weekly
A course designed to increase the knowledge and understanding of the use of the body in its defense. Also involves the principles of fitness and body movements and the development and maintenance of a high level of efficiency.

PE 11A - BEGINNING GYMNASTICS APPARATUS 1 Unit
Prerequisites: None
3 hours activity weekly
Development of proficiency in elementary skills of tumbling and gymnastics with emphasis on safety, basic understanding, and appreciation. Also emphasis on Body Balance, Tumbling, Trampoline and introduction to apparatus.

PE 11B - TUMBLING - FLOOR EXERCISE 1 Unit
Prerequisites: None
3 hours activity weekly
Development of proficiency in elementary skills of tumbling and gymnastics with principles of fitness and the development and maintenance of a high level of efficiency. Emphasis on the development of proficiency in the elementary skills of apparatus.

PE 12A - BEGINNING TEAM SPORTS 1 Unit
Prerequisites: None
3 hours activity weekly
Techniques, strategies, rules of team sports in season, with opportunity to participate in the intramural program. Emphasis on flag football, volleyball, and basketball.

PE 13A - WRA VARSITY VOLLEYBALL FOR WOMEN 2 Units
Prerequisites: None
1 hour lecture, 3 hours activity weekly
Open to women interested in competitive volleyball and competing in a junior college league. Instruction given in techniques, strategies and rules.

PE 13B - WRA VARSITY TRACK & FIELD FOR WOMEN 2 Units
Prerequisites: None
1 hour lecture, 3 hours activity weekly
Open to women interested in competing in track and field events at the junior college level. Instruction in techniques and rules.

PE 14 - DYNAMIC FITNESS 1 Unit
Prerequisites: None
3 hours activity weekly
A course designed in conditioning exercises to improve body form and function. Corrective and therapeutic exercises selected to fill specific needs.

BEGINNING COEDUCATIONAL ACTIVITIES

PE 20 - WATER SURVIVAL - BEGINNING SWIMMERS 1½ Units
Prerequisites: None
1 hour lecture, 2 hours activity weekly
This course is designed to teach basic swimming techniques for the beginning swimmer. Emphasis is placed on the basic strokes, emergency procedures, and recreational type activities. This course will also provide for improved cardiovascular fitness and weight control.

PE 21 - SWIMMING FOR FITNESS INTERMEDIATE AND ADVANCED SWIMMERS 1½ Units
Prerequisites: Basic swimming ability
1 hour lecture, 2 hours activity weekly
This course is designed to improve swimming techniques of swimmers. Emphasis will be placed on endurance training for improved cardiovascular fitness and weight control. Attention will also be given to survival techniques and emergency procedures.

PE 22A-B - DIRECTED STUDIES IN P.E. 1½ Units
Prerequisite: A course in the specific field and the consent of the instructor and Division Chairman
2-3 hours tutorial weekly
Designed for selected students who are interested in furthering their knowledge of physical education on an independent study basis. Assigned problems will involve library, laboratory, and field.

Maximum of 6 Units

PE 23 - BACKPACKING & OUTDOOR SURVIVAL 2 Units
Prerequisites: Physical fitness level for mountain hiking and adequate backpacking equipment for participation.
1 hour lecture, 3 hours activity weekly
Introduction to backpacking, equipment, clothing, food and recipes, menus and food lists, cooking, safety and survival, on the trail, in camp, ecology, preparation and participation in backpacking trips required.

PE 25 - SKIN DIVING 1½ Units
Prerequisites: Pass pre-swimming test, medical examination and release or waiver form signed by parents
1 hour lecture, 2 hours laboratory weekly
A basic program in skin diving that will prepare the student to progress into Scuba Diving and to develop the necessary knowledge and skills for safe diving. Emphasis is placed on educating the student in safe water practices, marine life and characteristics of all types of water bodies, for example currents and tides, as well as proper selection and maintenance of equipment. A physical examination and a swimming test are required for enrollment in this course.

PE 26 - YOGA AND THE INTEGRATED SELF 2 Units
Prerequisites: None
1½ hours lecture, 1½ hours activity weekly
Techniques for physical, emotional and mental development. Relaxation, observation, detachment, concentration and understanding of yogic principles are included.
PE 27 - COED SOFTBALL
Prerequisites: Good Health
3 hours activity weekly
Coeducational instruction and participation in the basic skills and strategy of slow pitch softball.

PE 28 - INTRODUCTION TO KARATE
Prerequisites: None
3 hours activity weekly
A course designed to teach the basic art of self-defense and insight into the meaning and origin of Karate.

PE 29 - JUDO
Prerequisites: None
3 hours activity weekly
Development of skill in the elementary fundamentals and techniques of Judo. The course covers the rules and a brief history of the sport.

PE 30 - ARCHERY
Prerequisites: None
3 hours activity weekly
Development of skill in archery, including rules, etiquette, safety factors, and techniques.

PE 31 - BEGINNING BADMINTON
Prerequisites: None
3 hours activity weekly
Development of skill in playing badminton, including rules, etiquette, and techniques.

PE 32 - BOWLING
Prerequisites: None
3 hours activity weekly
Development of skill in bowling, including rules, etiquette, safety features, and techniques. Class is conducted off campus at Simi Bowl.

PE 33 - GOLF
Prerequisites: None
3 hours activity weekly
Development of skill in playing golf. The course covers etiquette, rules, and techniques. NOTE: The evening sections of golf meet only 2 hours and receive ¼ unit.

PE 34 - TENNIS
Prerequisites: None
3 hours activity weekly
Development of skill in playing tennis. The course covers beginning skills, etiquette, rules and techniques of play.

PE 35 - SAILING
1½ Unit
1 hour lecture, 2 hours activity weekly
An introduction to the theory and techniques involved in sailing small slop rigged boats. An introduction to racing rules and tactics will also be included.

PE 36 - BEGINNING MODERN DANCE
Prerequisites: None
3 hours activity weekly
Development of proficiency in modern dance technique, skills and development of an understanding and appreciation of modern dance as an art form.

PE 37 - FOLK & SQUARE DANCE—ETHNIC DANCE
Prerequisites: None
3 hours activity weekly
Development of Ethnic dance skills, understanding and appreciation. Experiences in Folk, Square and Round dancing.

PE 38 - ADAPTIVE PHYSICAL EDUCATION
Prerequisites: None
3 hours activity weekly
A special course designed to meet the needs of students who are unable to participate in regular physical education activity classes. Students will be classified by the college physician as to the type of physical activity in which they may participate. Each student is given individual attention in terms of adapted and recreational activities suited to his/her needs. May be repeated for credit.

PE 39A - BEGINNING BALLET
Prerequisites: None
3 hours activity weekly
An introduction to basic ballet techniques. Classes will include exercise at the barre to develop flexibility, strength, control, and resilience and center practice of simple Port des Bras, Adage and Allegro combinations.

PE 40 - BEGINNING VOLLEYBALL
1 Unit
Prerequisites: None
3 hours activity weekly
Development of basic skills in playing volleyball including rules, techniques of playing power volleyball.

PE 41 - BEGINNING MODERN JAZZ
1 Unit
Prerequisites: None
3 hours activity weekly
Development of proficiency in jazz technique and skills and development of an understanding and appreciation of jazz as a dance form.

PE 44 - JOGGING FOR FITNESS
1 Unit
Prerequisites: None
3 hours activity weekly
This course is designed to help the individual improve his physical health and general well being. The course is open to all students. Emphasis will be placed on endurance training with a gradual increase of running. Special attention will be given to cardiovascular fitness and weight control.

PE 45 - INTRODUCTION TO YOGA
1 Unit
3 hours activity weekly
Hatha Yoga, an eastern approach to physical well-being that includes relaxation techniques, specific therapy for body control, good health, and some techniques for mental and emotional control. Background of Hatha Yoga and diet will also be covered.

PE 46 - BEGINNING RACKET SPORTS
1 Unit
Prerequisites: None
3 hours activity weekly
A special course to combine beginning tennis and badminton skills into one class. Rules, techniques and skills of the games are taught.

PE 47 - BEGINNING SKIING
1½ Units
Prerequisites: None
1 hour lecture, 2 hours activity weekly
This course will cover the OLM dry land ski instruction. The course will also cover the purchasing, care and repair of ski equipment and clothing.

PE 48 - FAMILY FITNESS
1 Unit
Prerequisites: Physical examination
3 hours activity weekly
A course designed in conditioning and endurance exercises to improve body form and appearance. The class is conducted on a coeducational basis and is designed for those families eligible for college enrollment.

INTERMEDIATE ACTIVITIES

PE 50 - INTERMEDIATE BODY CONDITIONING (MEN)
1 Unit
Prerequisites: PE 1
3 hours activity weekly
Advanced techniques and skills of the principles of fitness and the development and maintenance of a high level of efficiency.

PE 51 - INTERMEDIATE BADMINTON (CO-ED)
1½ Units
Prerequisites: PE 31 or Intermediate Skills Test
1 hour lecture, 2 hours activity weekly
Advanced techniques and strategies in badminton including participation in competitive tournaments and ladders.

PE 52 - INTERMEDIATE WRESTLING (MEN)
1 Unit
Prerequisites: PE 4
3 hours activity weekly
A continuation of beginning wrestling (PE 4) which will include advanced techniques and take-downs, rides, escapes and falls. Advanced instruction given concerning pinning combinations and strategies, and tactics.

PE 53 - INTERMEDIATE GOLF (CO-ED)
1 Unit
Prerequisites: PE 33 or consent of instructor
3 hours activity weekly
Advanced techniques and skills development with special emphasis on links play. Students are assigned play on local courses at their own expense. NOTE: The evening sections of golf meet only 2 hours and receive ½ unit.

PE 54A - INTERMEDIATE TENNIS
1 Unit
Prerequisites: PE 34 or a skills test by instructor
1 hour lecture, 2 hours activity weekly
Development of higher proficiency and performance of tennis skills with special emphasis on game strategy and techniques.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 64B</td>
<td>ADVANCED TENNIS</td>
<td>1/4 U</td>
<td>1 hour lecture, 2 hours activity weekly. Advanced techniques and theory of tennis.</td>
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<td></td>
<td></td>
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<td>- tournament playing.</td>
</tr>
<tr>
<td>PE 55</td>
<td>INTERMEDIATE BASEBALL</td>
<td>1 U</td>
<td>3 hours activity weekly. Fall class in which advanced technique and strategies of baseball are developed. A high degree of skill is emphasized during actual games.</td>
</tr>
<tr>
<td>PE 56</td>
<td>INTERMEDIATE MODERN DANCE</td>
<td>1 1/2 U</td>
<td>A continuing study of modern dance with technique emphasis upon combination of basic skills. Study of the dance phase with integration of the elements of rhythm, design, dynamics, and motivation change.</td>
</tr>
<tr>
<td>PE 57</td>
<td>INTERMEDIATE BASKETBALL</td>
<td>1 U</td>
<td>A continuing study of basketball experience - understanding of rules. 3 hours activity weekly. Advanced techniques and strategies in basketball. A continuing development of a high degree of skill is emphasized.</td>
</tr>
<tr>
<td>PE 58</td>
<td>INTERMEDIATE FOOTBALL</td>
<td>1 U</td>
<td>Development of advanced skills in football and the theory behind the different styles of play. 3 hours activity weekly. Advanced football ability.</td>
</tr>
<tr>
<td>PE 59</td>
<td>INTERMEDIATE TRACK (CO-ED)</td>
<td>1 1/2 U</td>
<td>Development of a high degree of skill is emphasized in the preparation for a competitive season. Special attention will be given to the development of the skills needed for the proficiency in the sport. This is a requirement for varsity track candidates.</td>
</tr>
<tr>
<td>PE 60</td>
<td>INTERMEDIATE VOLLEYBALL</td>
<td>1 U</td>
<td>Advanced techniques and strategies in playing power volleyball at the six, four, and two man levels. A continuing development of high level skills is emphasized. 3 hours activity weekly. Playing ability in volleyball.</td>
</tr>
<tr>
<td>PE 61</td>
<td>INTERMEDIATE COED GYMNASTICS</td>
<td>1 U</td>
<td>Development of fundamental skills in tumbling, free exercise, apparatus and apparatus for those already trained in the elementary gymnastics skills. 3 hours activity weekly.</td>
</tr>
<tr>
<td>PE 63</td>
<td>INTERMEDIATE SOCCER</td>
<td>1 U</td>
<td>Advanced techniques and skills in the game of soccer. 3 hours activity weekly.</td>
</tr>
<tr>
<td>PE 64</td>
<td>INTERMEDIATE JUGGLING</td>
<td>1 U</td>
<td>3 hours activity weekly. The course will develop one's cardiovascular system and take a closer examination of training methods.</td>
</tr>
<tr>
<td>PE 65</td>
<td>SKIN AND SCUBA DIVING</td>
<td>2 U</td>
<td>Prerequisites: PE 25 (After 72 fall semester) or pass pre-swimming test, medical examination and release or waiver signed by parents. 2 hours lecture, 3 hours laboratory weekly. A basic program in skin and scuba diving that will develop the necessary knowledge and skills for safe diving in Southern California. The class will emphasize the marine environment, equipment selection and maintenance, diving physics and physiology and accident prevention. A physical examination and a swimming test are required for enrollment in this course. *Beginning with the 1973 spring semester, PE 65 will be Scuba Diving only.</td>
</tr>
<tr>
<td>PE 66</td>
<td>INTERMEDIATE RUGBY</td>
<td>1 U</td>
<td>3 hours activity weekly. Advanced development of the skills in playing rugby. The course covers advanced skills in passing, kicking, offensive and defensive strategy.</td>
</tr>
<tr>
<td>PE 67</td>
<td>INTERMEDIATE ARCHERY</td>
<td>1 U</td>
<td>3 hours activity weekly. A continuing study of archery with emphasis upon advanced skills.</td>
</tr>
<tr>
<td>PE 68</td>
<td>INTERMEDIATE BOWLING</td>
<td>1 U</td>
<td>Prerequisites: PE 32 3 hours activity weekly. Advanced techniques and strategies in bowling and participation in competitive events.</td>
</tr>
<tr>
<td>PE 70</td>
<td>VARSITY BASEBALL (MEN)</td>
<td>2 U</td>
<td>Prerequisites: Meet the requirements for athletic eligibility in the Western State Conference and/or coach's permission. 10 hours activity weekly. Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. Varsity sports meet the P.E. activity requirement. Equivalent to PE 215, SFVSC.</td>
</tr>
<tr>
<td>PE 71</td>
<td>VARSITY BASKETBALL</td>
<td>2 U</td>
<td>Prerequisites: Meet the requirements for athletic eligibility in the Western State Conference 10 hours activity weekly. Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. Varsity sports meet the P.E. activity requirement. Equivalent to PE 201, SFVSC.</td>
</tr>
<tr>
<td>PE 72</td>
<td>VARSITY CROSS COUNTRY</td>
<td>2 U</td>
<td>Prerequisites: Permission of instructor 10 hours activity weekly. Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. Varsity sports meet the P.E. activity requirement. Equivalent to PE 203, SFVSC.</td>
</tr>
<tr>
<td>PE 73</td>
<td>INTERCOLLEGIATE FOOTBALL (MEN)</td>
<td>2 U</td>
<td>Prerequisites: Meet requirements for athletic eligibility in Western State Conference 3 hours lecture, 10 hours activity weekly. Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. Varsity sports meet the P.E. activity requirement. Equivalent to PE 200, SFVSC.</td>
</tr>
<tr>
<td>PE 74</td>
<td>VARSITY GOLF (MEN)</td>
<td>2 U</td>
<td>Prerequisites: Meet the requirements for athletic eligibility in the Western State Conference and/or coach's permission. 10 hours activity weekly. Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. Varsity sports meet the P.E. activity requirement. Equivalent to PE 210, SFVSC.</td>
</tr>
<tr>
<td>PE 75</td>
<td>VARSITY TENNIS</td>
<td>2 U</td>
<td>Prerequisites: Meet the requirements for athletic eligibility in the Western State Conference and/or coach's permission. 10 hours activity weekly. Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. Varsity sports meet the P.E. activity requirement. Equivalent to PE 211, SFVSC.</td>
</tr>
<tr>
<td>PE 76</td>
<td>VARSITY TRACK</td>
<td>2 U</td>
<td>Prerequisites: Successful completion of PE 59 and meet Western State Conference eligibility requirements. 10 hours activity weekly. Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. Varsity sports meet the P.E. activity requirement. Equivalent to PE 214, SFVSC.</td>
</tr>
<tr>
<td>PE 77</td>
<td>VARSITY WRESTLING</td>
<td>2 U</td>
<td>Prerequisites: Meet requirements for athletic eligibility in the Western State Conference. 10 hours activity weekly. Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. Varsity sports meet the P.E. activity requirement. Equivalent to PE 204, SFVSC.</td>
</tr>
</tbody>
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## PROFESSIONAL COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tr>
<td>PE 80</td>
<td>MEN'S PROFESSIONAL ACTIVITIES I</td>
<td>2</td>
<td>Consent of instructor and/or enrolled in P.E. major/minor program</td>
<td>1 hour lecture, 3 hours laboratory weekly. Development of skills, safety habits, appreciation and knowledge of rules, strategy, and background of the following activities: rugby, soccer, speedball, trampoline, tumbling. Equivalent to PE 180, SFVSC</td>
</tr>
<tr>
<td>PE 81</td>
<td>WOMEN'S PROFESSIONAL ACTIVITIES I</td>
<td>2</td>
<td>Consent of instructor and/or enrolled in P.E. major/minor program</td>
<td>1 hour lecture, 3 hours laboratory weekly. Development of skills, safety habits, appreciation and knowledge of rules, strategy, and background of the following activities: gymnastics, handball, weight training, wrestling. Equivalent to PE 181, SFVSC</td>
</tr>
<tr>
<td>PE 82</td>
<td>MEN'S PROFESSIONAL ACTIVITIES II</td>
<td>2</td>
<td>Consent of instructor and/or enrolled in P.E. major/minor program</td>
<td>1 hour lecture, 3 hours laboratory weekly. Development of skills, safety habits, appreciation and knowledge of rules, strategy, and background of the following activities: gymnastics, handball, weight training, wrestling. Equivalent to PE 191, SFVSC</td>
</tr>
<tr>
<td>PE 83</td>
<td>WOMEN'S PROFESSIONAL ACTIVITIES II</td>
<td>2</td>
<td>Consent of instructor and/or enrolled in P.E. major/minor program</td>
<td>1 hour lecture, 3 hours laboratory weekly. Development of skills, safety habits, appreciation and knowledge of rules, strategy, and background of the following activities: gymnastics, handball, weight training, wrestling. Equivalent to PE 200, SFVSC</td>
</tr>
<tr>
<td>PE 84</td>
<td>MEN'S PROFESSIONAL ACTIVITIES III</td>
<td>2</td>
<td>Consent of instructor and/or enrolled in P.E. major/minor program</td>
<td>1 hour lecture, 3 hours laboratory weekly. Development of skills, safety habits, appreciation and knowledge of rules, strategy, and background of the following activities: archery, badminton, basketball, golf, lead-up games, volleyball. Equivalent to PE 211, SFVSC</td>
</tr>
<tr>
<td>PE 85</td>
<td>WOMEN'S PROFESSIONAL ACTIVITIES III</td>
<td>2</td>
<td>Consent of instructor and/or enrolled in P.E. major/minor program</td>
<td>1 hour lecture, 3 hours laboratory weekly. An orientation to the field of dance in physical education and development in skills, appreciation and knowledge of modern dance and basic dance forms including background information. (F) Equivalent to PE 281, SFVSC</td>
</tr>
<tr>
<td>PE 86</td>
<td>MEN'S PROFESSIONAL ACTIVITIES IV</td>
<td>2</td>
<td>Consent of instructor and/or enrolled in P.E. major/minor program</td>
<td>1 hour lecture, 3 hours laboratory weekly. Development of skills, safety habits, appreciation and knowledge of rules, strategy, and background of the following activities: baseball, football, softball, tennis, track and field. Equivalent to PE 281, SFVSC</td>
</tr>
<tr>
<td>PE 87</td>
<td>WOMEN'S PROFESSIONAL ACTIVITIES IV</td>
<td>2</td>
<td>Consent of instructor and/or enrolled in P.E. major/minor program</td>
<td>1 hour lecture, 3 hours laboratory weekly. Development of skills, safety habits, appreciation and knowledge of rules, strategy, and background of the following activities: volleyball, softball, soccer and field hockey. Equivalent to PE 281, SFVSC</td>
</tr>
<tr>
<td>PE 88A-B</td>
<td>DANCE PRODUCTION (COED)</td>
<td>1-2</td>
<td>Consent of instructor and/or consent of instructor.</td>
<td>1 hour lecture, 1.5 hours laboratory weekly. Practical experience in the many phases of dance concert and demonstration, i.e., choreography, staging, make-up, costume fitting, set designing and construction, lighting, and publicity. Accepted for credit, UC (all branches)</td>
</tr>
<tr>
<td>PE 90</td>
<td>INTRODUCTION TO PHYSICAL EDUCATION (COED)</td>
<td>2</td>
<td>None</td>
<td>2 hours lecture weekly. A general survey of the field of Physical Education: exploration of the aims, objectives, scope and contemporary values of Physical Education, project and field work required. (F) Accepted for credit, UC (all branches)</td>
</tr>
<tr>
<td>PE 91A-B</td>
<td>SPORTS OFFICIATING (MEN)</td>
<td>2</td>
<td>None</td>
<td>2 hours lecture weekly. Instruction and laboratory experience in sports officiating for men. Proficiency ratings required to successfully complete the course PE 91A during the fall semester - football, basketball, soccer, wrestling; PE 91B during the spring semester - track, baseball, rugby, volleyball. Accepted for credit, UC (all branches)</td>
</tr>
<tr>
<td>PE 93A-B</td>
<td>WOMEN'S SPORTS OFFICIATING</td>
<td>2</td>
<td>Consent of instructor and enrolled in P.E. major/minor program</td>
<td>1 hour lecture, 3 hours laboratory weekly. Instruction and laboratory experience in sports officiating for women. 93A - Fall semester - Individual sports 93B - Fall semester - Team Sports. Offered alternate fall semesters. Equivalent to PE 288 and 289, SFVSC</td>
</tr>
<tr>
<td>PE 94</td>
<td>BASKETBALL THEORY</td>
<td>2</td>
<td>Advanced basketball ability</td>
<td>1 hour lecture, 3 hours activity weekly. Development of advanced skills in basketball and the theory behind different styles of play, including studying of films, drills, rules and techniques of coaching. Equivalent to PE 290, SFVSC</td>
</tr>
<tr>
<td>PE 95</td>
<td>FOOTBALL THEORY</td>
<td>2</td>
<td>Advanced football ability</td>
<td>1 hour lecture, 3 hours activity weekly. Development of advanced skills in football and the theory behind the different styles of play, including studying of films, drills, rules and techniques of coaching. Equivalent to PE 291, SFVSC</td>
</tr>
<tr>
<td>PE 96</td>
<td>BASEBALL THEORY</td>
<td>2</td>
<td>Advanced baseball ability</td>
<td>1 hour lecture, 3 hours activity weekly. Development of advanced skills in baseball and the theory behind the methods and styles of play. Class members will participate in summer baseball program with lab assignments and will have weekly lectures including films and guest lecturers to facilitate instruction. Equivalent to PE 292, SFVSC</td>
</tr>
<tr>
<td>PE 97</td>
<td>CREATIVE MOVEMENT ACTIVITIES FOR CHILDREN</td>
<td>3</td>
<td>None</td>
<td>2 hours lecture, 3 hours activity weekly. A presentation of methods and materials which parents and teachers of pre-school and early elementary-aged children can utilize in encouraging and directing creative movement experiences, in the school, home, or various organizations. (Co-number ECO 65) Accepted for credit, UC (all branches)</td>
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## PHYSICS

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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>Ph 2A-8</td>
<td>GENERAL PHYSICS</td>
<td>4.4</td>
<td>High School mathematics through trigonometry or Math 7 (may be taken concurrently); Ph 2A for Ph 2B</td>
<td>3 hours lecture and 3 hours laboratory weekly. First semester—An introduction to mechanics, heat, sound and optics. A descriptive course with some quantitative work. Demonstration lectures and solution of problems. A course designed to meet the needs of medical, dental, optometry, and liberal arts students. The role of the laboratory is defined and basic arts of planning, execution, analysis and synthesis in experimentation is practiced. (F) Equivalent to Physics 100A, SFVSC Second semester—An introduction to electricity, atomic, nuclear and relativistic physics. Demonstrations, lectures, assignment of problems, and laboratory experiments. A continuation of Ph 2A (B) Equivalent to Physics 100B, SFVSC</td>
</tr>
</tbody>
</table>
PH 3 - THE ARTS OF EXPERIMENTAL INVESTIGATION

Corequisite: Concurrent enrollment in Ph 10
3 hours laboratory weekly.
A laboratory course to accompany Physics 10. The role of the laboratory in solving problems is defined and basic arts of planning, execution, analysis, and synthesis in experimentation is practiced. Basic measurement skills of time, mass, length, and charge are required. (F,S)
Accepted for credit, UC (all branches)

*PH 4A - MECHANICS OF SOLIDS

Prerequisites: High school physics or Physics 10 with laboratory or equivalent.
2 hours lecture, 3 hours laboratory weekly.
An introductory study of statistics and dynamics of particles and rigid bodies. This course uses analytical techniques such as calculus and vector analysis where needed and is intended for majors in physics, engineering, chemistry, and mathematics. Relativistic mechanics is introduced. Basic lab techniques and skills are emphasized. (F)
Accepted for credit, UC (all branches)

*PH 4B - MECHANICS OF FLUIDS, HEAT AND SOUND

Prerequisites: Successful completion of Ph 4A or equivalent.
Math 25B must be taken concurrently or have been completed.
2 hours lecture, 3 hours laboratory weekly.
An introduction to hydrostatics, hydromechanics, thermodynamics processes and systems, mechanical waves. Some basic exercises in lab and some real problems. (S)
Accepted for credit, UC (all branches)

*PH 4C - ELECTRICITY AND MAGNETISM

Prerequisites: Successful completion of Ph 4B or equivalent and Math 25 B.
2 hours lecture, 3 hours laboratory weekly.
An introduction to electricity and magnetism. Emphasis is placed on an understanding of field theory and the applications of the calculus. Topics covered include: Coulomb's law, Gauss' law, Faraday's law, Ohm's law, AC and DC circuits, and laboratory employs AC and DC circuits to include oscilloscopes and other modern laboratory equipment. (F)
Accepted for credit, UC (all branches)

*PH 4D - OPTICS AND MODERN PHYSICS

Prerequisites: Successful completion of Ph 4C, its equivalent or permission of instructor and successful completion of Math 25C.
2 hours lecture, 3 hours laboratory weekly.
An introduction to geometrical and physical optics, atomic and nuclear physics. Selected topics in quantum mechanics are discussed at elementary level. The solution of problems in vector calculus and differential equations is demonstrated. Three hours of laboratory work each week in optics, atomic and nuclear physics. Some neutron activation analysis. Accepted for credit UC (all branches)

*Combination of Physics 4A,B,C,D, is equivalent to Physics 220A,B,C, SFVSC

PH 10 - DESCRIPTIVE PHYSICS

Prerequisite: Math 1 or equivalent
3 hours lecture weekly (3 lab hours recommended, but not required)
Primarily a non-mathematical description of the basic principles of physics, using discussions, lecture-demonstrations, oral and written reports. Accepted for credit, UC (all branches)
With Ph 3, equivalent to Ph 160, SFVSC

PH 11A-B - TECHNICAL PHYSICS

Prerequisites: High School algebra with grade of C or higher or Math 3.
3 hours lecture, 3 hours laboratory weekly.
Mechanics, heat, electricity, magnetism, sound, light, and atomic energy with emphasis on technical applications in industry. A rigorous but non-calculus course in basic applied physics. Required of all technical majors. (F)

PH 12A - APPLIED PHYSICS

Prerequisites: Consent of instructor and/or high school algebra
16 hours lecture for 1 unit.
A description of the basic principles of physics and science. The emphasis will be on the study of mechanics to include motion, forces, work and energy. The principle mode of learning will be lecture-demonstrations, discussions, problem solving and simple directed experiments.

PH 12B - APPLIED PHYSICS

Prerequisites: Math 12A or consent of instructor
16 hours lecture for 1 unit.
A description of the basic principles of physics. The emphasis will be on properties of materials, temperature, heat and optics. The principle mode of learning will be lecture-demonstrations, discussions, problem solving and simple directed experiments.

PH 12C - APPLIED PHYSICS

Prerequisite: Math 12A, Math 12B or consent of instructor
16 hours lecture for 1 unit.
A description of the basic principles of physics. The emphasis will be upon electricity and magnetism. The principles mode of learning will be lecture-demonstration, problem solving and simple directed experiments.

PH 22A-B - DIRECTED STUDIES IN PHYSICS

Prerequisites: A course in the specific field with a recommended grade and consent of instructor and Division Chairman.
1-3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of physics on an independent study basis. Assigned problems will involve library, laboratory, and field work. (F,S)
Maximum of 3 units accepted for credit, SFVSC

PHYSICAL SCIENCE

Phys Sci 1 - INTRODUCTION TO PHYSICAL SCIENCE

Prerequisite: Math 1 or equivalent recommended.
2 hours lecture, 3 hours laboratory weekly.
Experimental approach to the nature of the physical world, emphasizing the basic principles of Chemistry and Physics and the ways in which these principles affect matter. Representative topics to be investigated include properties of matter, mixtures and their separations, radioactive, atomic and molecular theories, and energy.
Equivalent to Physical Science 160, SFVSC
Accepted for credit, UC (all branches)

Phys Sci 5 - INTRODUCTION TO METEOROLOGY

Prerequisite: Math 5 or equivalent recommended.
3 hours lecture weekly.
Introduction to meteorological phenomena, energy, atmospheric circu-culation, precipitation, interrelationships between land, sea and atmosphere. Introduction to meteorological instrumentation and reporting, interpretation of data. (Co-number Geog 5)
Accepted for credit, UC (all branches)

Phys Sci 6 - INTRODUCTION TO METEOROLOGY LABORATORY

Prerequisite: Phys Sci 5 or Geog 5 concurrent or consent of instructor
3 hours laboratory weekly.
Laboratory to accompany Phys Sci 5. Introduction to Meteorological observation, cloud identification, instrumentation; interpretation of weather charts and data; weather system identification and analysis. Field trips required. (Co-number Geog 6)

Phys Sci 10 - SKY AND TELESCOPE

Prerequisites: None
2 hours lecture weekly.
A general interest-education course that will survey some major consideration in intergalactic space such as birth and death of stars, dimensions of the Universe and the destiny of the Universe. Field trips, evening st stationaries and contemporary literature will provide background for the in-class discussions.
Accepted for credit, UC (all branches)

Phys Sci 20 - SMALL COMPUTER APPLICATIONS IN SCIENCE AND ENGINEERING

Prerequisites: Working knowledge of Algebra and Trigonometry
1 hour lecture and 3 hours laboratory weekly.
Instruction in small computer arithmetic and techniques of problem solving with a computer. The Hewlett-Packard Programmable Calculator, Plotter, Printer and Mark-Sense Card Reader are discussed specifically. The course emphasizes "hands on" learning of the operation of the system. (S)
Accepted for credit, UC (all branches)

Phys Sci 22 A-B - DIRECTED STUDIES IN PHYSICAL SCIENCES 1-3/1-3 Unit
Prerequisites: A course in the specific field and consent of Instructor and Division Chairman
1-3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of physical science on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units.
Maximum of 3 units accepted for credit, SFVSC
POLITICAL SCIENCE

Pol Sci 1 - INTRODUCTION TO GOVERNMENT
Prequisites: Satisfactory score on placement test.
3 hours lecture weekly.
Basic principles of political science as it applies to government, and processes of policy; fulfills state requirements for federal state and local government. The student will do research and writing on special topics, and the case study of selected political problems will be used to supplement the lectures and discussions. For social science majors or others with strong interest in this area, Course fulfills state requirements for American institutions.
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)

Pol Sci 2 - COMPARATIVE GOVERNMENT
Prequisites: Satisfactory score on placement test.
3 hours lecture weekly.
A comparative study of selected government of the Americas, Europe, Africa and Asia, including the United States, Britain, France, Germany, the Soviet Union, China, and India. Fulfills the state requirements for study of federal, state and local government. (F)
Equivalent to Pol Sci 196, SFVSC
Accepted for credit, UC (all branches)

Pol Sci 3 - AMERICAN GOVERNMENT
Prequisites: Satisfactory score on placement test.
3 hours lecture weekly.
Survey of the main characteristics, historical background, contemporary principles, structure, practice and issues of American government, including the national, California state and local government; fulfills the state requirement for study of federal, state and local government. The emphasis will be placed on field research in practical politics. (F,S)
Equivalent to Pol Sci 185, SFVSC
Accepted for credit, UC (all branches)

Pol Sci 4 - INTERNATIONAL RELATIONS
Prequisites: Satisfactory score on placement test
3 hours lecture weekly.
The course is a study of relations between sovereign units. It will concentrate on international organization, theoretical proposals toward and possibilities for world peace, the simple mechanics of politics among nations, and will consider the formation of American foreign policy. Attention will be paid to the relationship between domestic and foreign politics.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Pol Sci 7 - MINORITY GROUPS
Prequisites: None.
3 hours lecture weekly.
A study of the historical and contemporary political problems faced by religious, ethnic, sexual, low income, and racial minorities in America. The course is intended to study the environment America creates for the minority group member, the prejudice he faces, and the means he finds for overcoming the prejudice and becoming an equal participant in the political process. The political process is seen as an area in which majority-minority relations are studied and where negotiations and compromises are achieved in solving minority group problems. (F,S)
Equivalent to Political Science 196, SFVSC
Accepted for credit, UC (all branches)

Pol Sci 8 - POLITICAL PATTERNS IN THE U.S.
Prequisites: Satisfactory score on placement test.
3 hours lecture weekly.
Fundamental principles of U.S. Government, Federal, State and Local, in theory and practice. Emphasis on State and Local Government of the Southwest with particular attention given to the legislative process, political parties, pressure groups, and implementation of policy at County and Municipal levels. Special emphasis on the participation of the Mexican American in our political institutions. (Co-number MAS 8)
Accepted for credit, UC (all branches)

Pol Sci 9 - ADJUDICATION OF SOCIAL ISSUES
Prequisites: Satisfactory score on placement test
3 hours lecture weekly
This course explores current social issues from a legal point of view. Such topics as abortion, drugs, free speech and press, obscenity, draft resistance, and consumers’ and debtors’ rights are studied using the case method approach.

Pol Sci 10 - PUBLIC ADMINISTRATION AND POLICY DEVELOPMENT
Prequisites: Satisfactory score or placement test.
3 hours lecture weekly.
This course will focus upon the role of administration in government with special emphasis on the potentially commanding position of bureaucratic power in American politics. The course is designed to help the student develop an understanding of what public administration is, how decisions are made in the public bureaucracy, what its tasks are, and how it goes about accomplishing these tasks. Fulfills the state requirements for study of federal, state and local government.
Accepted for credit, UC (all branches)
Accepted for credit, SFVSC

Pol Sci 22A-B - DIRECTED STUDIES IN POLITICAL SCIENCE
Prequisites: A course in the specific field with a recommending grade and consent of Instructor and Division Chairman.
1-3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of political science on an independent study basis. Assigned problems will involve library and field work.
3 units maximum credit, SFVSC

Pol Sci 49A-B - DIRECTED WORK EXPERIENCE IN POLITICAL SCIENCE
Prequisites: Consent of instructor and Division Chairman.
5 - 15 hours laboratory weekly
A program of on-the-job training for students planning to enter public agencies. There will be a combination of work in the agencies and classroom evaluation of the agency and of the performance of the student. Maximum of 6 units.

PSYCHOLOGY

Psych 1A - INTRODUCTION TO PSYCHOLOGY
Prequisites: Satisfactory score on placement test
3 hours lecture weekly.
An introduction to the subject: matter of psychology with emphasis on scientific method, growth and development, sensation and perception, motivation and emotion, learning and cognition, personality, mental health. Designed particularly for psychology majors and for the needs of students majoring in Anthropology, Biology, medicine, Psychology and Sociology. A student should not take both Psych 1A and Psych 2.
Equivalent to Psych 150, SFVSC
Accepted for credit, UC (all branches)

Psych 1B - INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY
4 hours lecture weekly.
An introduction to experimental methodology in psychology with an emphasis on the scientific method, basic statistics and the physiological bases of behavior. Individual experimental study is included. Recommended as a second course in the major sequence.
Equivalent to Psych 250, SFVSC
Accepted for credit, UC (all branches)

Psych 2 - GENERAL PSYCHOLOGY
3 hours lecture weekly.
A survey of the subject matter of psychology. Subject areas will include philosophy of science, heredity, and environment, growth and development, motivation, emotion, learning, personality, and mental health. Designed for those not majoring in psychology. Students preparing for elementary, secondary or community college teaching credentials should take this course.
Accepted for credit, UC (all branches)

Psych 3 - PERSONAL & SOCIAL ADJUSTMENT
3 hours lecture weekly.
Orientation in the use of psychological principles applied in understanding human relationships and developing social adaptability. Emphasis will be on the nature of man, human needs and goals, the processes of personal and social adjustment, and mental health.
Accepted for credit, SFVSC
Accepted for credit, UC (all branches)
**Psych 4 - CHILD PSYCHOLOGY** 3 Units
Prerequisites: One course in the field of Psychology
3 hours lecture weekly.
The focus of this course will be on the psychology of children as well as on basic principles of developmental psychology. While the major emphasis will be on the child as a person, exploration of the personal, societal, and cultural forces important from birth to puberty will be made.

**Psych 5 - SOCIAL PSYCHOLOGY** 3 Units
Prerequisites: One course in the field of Psychology
3 hours lecture weekly.
A study of human social relationships. Topics of study include personal interaction, structure and leadership, role and status, fads and fashions, attitude formation and change, communication and propaganda, nature of prejudice and social change. Stress is placed upon methods of easing group tensions and solving current problems. Equivalent to Soc 202, SFVSC.

**Psych 12 - BEHAVIORAL PRINCIPLES** 3 Units
Prerequisites: Consent of instructor
3 hours lecture weekly.
An introduction to behavioral theory in learning principles. Consideration will be given to experimental analysis of behavior, antecedent, and consequences, as well as a demonstration of ability to alter behavior using contingencies of reinforcement and stimulus control. Emphasis will be on class discussion and peer learning as well as select case studies.

**Psych 13 - BEHAVIORAL TECHNIQUES** 3 Units
Prerequisites: Psych 12 and consent of instructor
3 hours lecture weekly.
This course will examine counter-conditioning theory and practice, including the formulation of a counter-conditioning therapy program which will be implemented with a selected subject. Emphasis will be on developing competence in utilizing counter-conditioning techniques.

**Psych 14 - CONTINGENCY MANAGEMENT** 3 Units
Prerequisites: Psych 13 and consent of instructor
3 hours lecture weekly.
A review of contingencies of reinforcement as they apply to educational and mental health settings. Laboratory assignments will focus on the application of contingencies of reinforcement involving the effect of behavioral consequences, transfer from continuous interval schedules of reinforcement and behavioral self-control experiments.

**Psych 15 - APPLIED BEHAVIOR FOR PARENTS** 3 Units
Prerequisites: Psych 14 and consent of instructor
3 hours lecture weekly.
A review of the basic principles of human behavior, especially as applied to child management and child development. Attention will be given to the use of behavior modification methods in improving children's behavior.

**Psych 22A-B - DIRECTED STUDIES IN PSYCHOLOGY** 1-3/1-3 Units
Prerequisites: A course in the specific field and consent of instructor and Division Chairman
1-3 hours tutorial weekly.
Designed for selected students who are interested in furthering their knowledge of psychology on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units. 3 unit maximum accepted SFVSC.

**READING**

Faculty: Michael Strumpf; Sinclair Wall

*Read 1A - BASIC READING SKILLS* 3 Units
Prerequisites: English placement test score and counselor recommendation.
2 hours lecture, 3 hours laboratory weekly.
Diagnosis of individual reading difficulties; adaption to assist student to overcome his individual difficulties providing suitable materials; use of reading accelerators.

*Read 1B - ADVANCED LAB* 2 Units
Prerequisites: Read 1A
5 hours laboratory weekly.
Improvement of skills in reading and studying that were taught in Read 1A. This course is entirely laboratory, with emphasis on using machines and kits available in the Reading Lab.

*Read 2 - WORD POWER* 3 Units.
Prerequisites: None
3 hours lecture, 2 hours laboratory weekly.
The student will receive special training in the basic principles of word analysis: Latin and Greek roots, prefixes and suffixes, synonyms and antonyms, context clues. Special attention given to history and origin of words, focus on connotative and denotative word meanings with emphasis on propaganda techniques. A multi-media learning approach will be used.
### RECREATION

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tr>
<td>Rec 1</td>
<td>INTRODUCTION TO COMMUNITY RECREATION</td>
<td>3</td>
<td>None. Concurrent enrollment in Rec 3A recommended for majors and minors</td>
</tr>
<tr>
<td>Rec 3A-B</td>
<td>RECREATIONAL LEADERSHIP</td>
<td>3</td>
<td>Consent of instructor and/or enrolled in Rec 1 or in Recreation or PE major/minor program</td>
</tr>
<tr>
<td></td>
<td>Character and techniques and group dynamics</td>
<td></td>
<td>1 hour lecture, 6 hours laboratory weekly</td>
</tr>
<tr>
<td></td>
<td>Exploration of the role of the recreation</td>
<td></td>
<td>Methods and materials for the planning, organization, and conducting of social activities</td>
</tr>
<tr>
<td></td>
<td>professionals with emphasis on leadership</td>
<td></td>
<td>as a means of group social situations. Emphasis on the mechanics of planning, planning,</td>
</tr>
<tr>
<td></td>
<td>techniques and group dynamics. Field work</td>
<td></td>
<td>techniques of presentation, and a repertoire of activities for presenting social</td>
</tr>
<tr>
<td></td>
<td>consisting of practical experience</td>
<td></td>
<td>recreation activities. Activities will be discussed, participated in, and/or demonstrated.</td>
</tr>
<tr>
<td></td>
<td>in program planning, scheduling, and</td>
<td></td>
<td>Laboratory work in recreation required. It is recommended that students also enroll in Rec</td>
</tr>
<tr>
<td></td>
<td>evaluation of on-campus recreational</td>
<td></td>
<td>3A or 3B, Recreational Leadership as their lab assignment.</td>
</tr>
<tr>
<td>Rec 4</td>
<td>SOCIAL RECREATION</td>
<td>3</td>
<td>Consent of instructor or enrollment in Recreation major/minor program</td>
</tr>
<tr>
<td>Rec 5</td>
<td>OUTDOOR RECREATION</td>
<td>3</td>
<td>2 hours lecture, 3 hours laboratory weekly</td>
</tr>
<tr>
<td></td>
<td>A course in outdoor recreation designed</td>
<td></td>
<td>Methods and materials for the planning, organization, and conducting of social activities</td>
</tr>
<tr>
<td></td>
<td>for recreation majors and minors</td>
<td></td>
<td>as a means of group social situations. Emphasis on the mechanics of planning, planning,</td>
</tr>
<tr>
<td></td>
<td>as well as other students interested in the</td>
<td></td>
<td>techniques of presentation, and a repertoire of activities for presenting social</td>
</tr>
<tr>
<td></td>
<td>outdoors. The class will cover four</td>
<td></td>
<td>recreation activities. Activities will be discussed, participated in, and/or demonstrated.</td>
</tr>
<tr>
<td></td>
<td>major areas: 1) A unit on soils, grasses,</td>
<td></td>
<td>Laboratory work in recreation required. It is recommended that students also enroll in Rec</td>
</tr>
<tr>
<td></td>
<td>trees and shrubs, 2) a unit on ecological</td>
<td></td>
<td>3A or 3B, Recreational Leadership as their lab assignment.</td>
</tr>
<tr>
<td></td>
<td>units and habitat studies; 3) a unit on</td>
<td></td>
<td>A practical experience course in which students are placed in two</td>
</tr>
<tr>
<td></td>
<td>outdoor skills leading toward an</td>
<td></td>
<td>recreation leadership capacities per semester. Students will gain experience by working with</td>
</tr>
<tr>
<td></td>
<td>appreciation and practical use of the</td>
<td></td>
<td>public agency, a private agency, a therapeutic agency, and a fourth: agency to be agreed on</td>
</tr>
<tr>
<td></td>
<td>outdoors; and 4) leadership techniques</td>
<td></td>
<td>by the student and the instructor when a student takes both 8A and 8B. (8A-F; 8B-S)</td>
</tr>
</tbody>
</table>
|        | in outdoor recreation settings and           |       | Rec 22A-B | DIRECTED STUDIES IN RECREATION                  | 1-3
|        | activities. Field trips including actual    |       | Consent of instructor and enrolled in Recreation major/                                          |
|        | hikes and a campground will be required.    |       | minor program.                                                                                  |
| Rec 8A-B | FIELD EXPERIENCES IN COMMUNITY RECREATION  | 3     | Permission of instructor and/or completion of Rec 1 and/or Rec 3A                              |
|        | Recreation                                |       | 1 hour lecture, 6 hours laboratory weekly                                                     |
|        | A practical experience course in which     |       | A practical experience course in which recreation students can develop                        |
|        | students are placed in two recreation       |       | leadership techniques under the supervision of a faculty member as well as the supervision of   |
|        | leadership capacities per semester.         |       | the supervising of the employing agency. For each unit of credit, five hours of work with     |
|        | Students will gain experience by working    |       | a recreation agency is required, up to three units or fifteen hours per week.                  |
|        | with: a public agency, a private agency,    |       |                                                                                               |
|        | a therapeutic agency, and a fourth: agency  |       |                                                                                               |
|        | to be agreed on by the student and the      |       |                                                                                               |
|        | instructor when a student takes both 8A     |       |                                                                                               |
|        | and 8B. (8A-F; 8B-S)                       |       |                                                                                               |

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### REAL ESTATE

**RE 91 - REAL ESTATE PRINCIPLES**  
3 Units  
Prerequisite: None  
3 hours lecture weekly  
Practical study of California real estate law to assist real estate salesman and real estate brokers. Designed to provide the necessary knowledge required of candidates for the California Real Estate Salesman's Exam. (F-S)  

**RE 92 - LEGAL ASPECTS OF REAL ESTATE**  
3 Units  
Prerequisite: RE 91 or equivalent  
3 hours lecture weekly  
Practical study of California real estate law to assist real estate salesmen and brokers in avoiding the legal problems which arise in conjunction with real estate transactions; case study methods are utilized. (S)  

**RE 93 - REAL ESTATE PRACTICES**  
3 Units  
Prerequisite: RE 91 or equivalent  
3 hours lecture weekly  
Techniques of operating a real estate business with emphasis on the daily activities of brokers and salesmen; emphasis on securing and qualifying prospects, obtaining listings, and legal factors in the real estate transaction. (S)  

**RE 94 - REAL ESTATE APPRAISAL**  
3 Units  
Prerequisite: RE 91 or equivalent  
3 hours lecture weekly  
A first course in real estate appraisal confined largely to residential property with an introduction to investment property valuation; methods and techniques for determining value for loan and insurance purposes; case study situations and actual field work. (F)  

**RE 95 - REAL ESTATE FINANCE**  
3 Units  
Prerequisite: RE 91 or equivalent  
3 hours lecture weekly  
Practical study and analysis of money markets, interest rates, and real estate financing, with actual case illustrations demonstrating lending policies, problems and rules involved in financing real property, including residential, multi-family, commercial, and special purpose properties. (S)  

**RE 96 - REAL ESTATE ECONOMICS**  
3 Units  
Prerequisite: RE 91 or equivalent  
3 hours lecture weekly  
Economic trends in real estate and land use; dynamic factors which create values in real estate; background for more specialized courses in real estate operation and techniques. (F)  
* Equivalence to RE 91 can be possession of a California Real Estate Sales License or ability to take the broker's examination.
SOCIAL SCIENCE

Soc Sci 1A-B - AMERICAN ISSUES 2,2 Units
Prerequisites: None
2 hours lecture weekly.
A survey of some of the most critical issues confronting American society. These include: the growth of technology, the rise of corporate power, America's role in world affairs, and changing political patterns. The vantage points for this survey are both historic and contemporary. Completion of Soc Sci 1A-B will fulfill 40% degree requirements in American history and institutions. Accepted for credit, UC (all branches)

SOCIOLOGY

Soc 1 - INTRODUCTION TO SOCIOLOGY 3 Units
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
The structure of society, and of human behavior in the context of a social system; basic concepts and terms used in sociological research; some world-wide problems related to population and industrialization. (F,S)
Equivalent to Soc 150, SFVSC
Accepted for credit, UC (all branches)

Soc 2 - SOCIAL PROBLEMS 3 Units
Prerequisites: Soc 1 or permission of instructor
3 hours lecture weekly.
Sociological theory regarding deviant behavior, particularly in the U.S.: major social problems, related factors, and current and proposed policies for solution. (F,S)
Equivalent to Soc 200, SFVSC
Accepted for credit, UC (all branches)

Soc 3 - SOCIOLOGICAL ANALYSIS 3 Units
Prerequisites: Soc 1
3 hours lecture weekly
Application of basic sociological concepts and methods for studying institutions and problems of contemporary American Society.
Equivalent to Soc 202, SFVSC

Soc 4 - MARRIAGE AND THE FAMILY 3 Units
Prerequisite: Satisfactory score on placement test.
3 hours lecture weekly.
A study of the institution of marriage as a significant social unit throughout the world. Dating, mate-selection, courtship, engagement, marriage, and parenthood are analyzed transculturally. (F,S)
Accepted for credit, UC (all branches)
Accepted for credit SFVSC

Soc 5 - SOCIAL PSYCHOLOGY 3 Units
Prerequisites: Psych 1A or Soc 1
3 hours lecture weekly.
A study of human social relationships. Topics of study include personal interaction, group interaction, structure and leadership, role and status, fads and fashions, attitude formation and change, communication and propaganda, nature of prejudice and social change. Stress is placed upon methods of easing group tensions and solving current problems. (Co-Number Psych 5)

Soc 6 - MEXICAN-AMERICAN IN CONTEMPORARY SOCIETY 3 Units
Prerequisite: Satisfactory score on placement test or consent of instructor
3 hours lecture weekly.
An analysis of the socio-economic and political problems confronting the Mexican-American with emphasis on proposed solutions. Particular focus will be placed on the effects the social institutions have had on the Mexican-American community. Special emphasis will be placed on the school system. (This course will count toward Social Science or general education credit). (F) (Co-numbered MAS 1)
Accepted for credit, UC (all branches)

Soc 7 - FIELD WORK IN BARBIE STUDIES 3 Units
Prerequisites: Completion of Soc 6 or consent of instructor
1 hour lecture, 3 hours laboratory weekly
Field study observation of selected barrios, institutions, and agencies to be conducted under supervision and after preparatory instruction to acquaint students with the barrio. (Co-numbered MAS 7)
Accepted for credit, UC (all branches)

Soc 8 - MINORITY GROUP RELATIONS 3 Units
Prerequisites: Satisfactory score on placement test
3 hours lecture weekly.
Application of Sociological theory to the social processes which affect racial, ethnic, and sexual minorities in the United States. An analysis of the relationship between the functions of the institutions of the society and the problems of the minorities.

Soc 22A-B - DIRECTED STUDIES IN SOCIOLOGY 1,3/1,3 Units
Prerequisites: A course in the specific field and the consent of the instructor and Division Chairman.
1-3 hours tutorial weekly.
Designated for selected students who are interested in furthering their knowledge of sociology on an independent study basis. Assigned problems will involve library, laboratory, and field work. Maximum of 6 units. Maximum of 3 units accepted, SFVSC

SPANISH

Spn 1A-B - ELEMENTARY SPANISH 4,4 Units
Prerequisite: For Spn 1A, consent of counselor; for Spn 1B, Spn 1A or 2 years of high school Spanish with grades of C or better.
5 hours lecture, 1 hour laboratory weekly.
Intensive study of the Spanish Language and culture; special emphasis will be given to the skills and knowledge necessary for speaking and writing Spanish and the unique nature of the people and their history; the language laboratory will be used extensively in the class and students will be expected to arrive at the additional hour of language lab time each week. (F,S)
Equivalent to Spn 101, Spn 102, SFVSC
Accepted for credit, UC (all branches)

Spn 2A-B - INTERMEDIATE SPANISH 4,4 Units
Prerequisite: For Spn 2A, Spn 1B or three years of high school Spanish with grades of C or better; for Spn 2B, Spn 2A or 4 years of high school Spanish.
Further study of spoken and written Spanish and of Spanish culture; development of ability to read with greater ease by study and discussion in Spanish of representative literary works; continued emphasis on oral and written expression. All students will be expected to spend an additional hour per week of study in the language laboratory. (2A-F, 2B-S)
Equivalent to Spn 201 and 202, SFVSC
Accepted for credit, UC (all branches)

Spn 3A-B - SPANISH FOR THE SPANISH SPEAKING 4,4 Units
Prerequisite: A speaking knowledge of the Spanish language.
4 hours lecture, 1 hour laboratory weekly.
The methodical presentation of the basic communication skills of Spanish for students who are from Spanish speaking backgrounds. Emphasizing vocabulary building and conversation, both semesters increase proficiency in understanding, speaking, reading and writing Spanish. Special attention is focused on correct grammar and written communication for the Mexican-American. Equivalent to Spn 1A-B (3A-F, 3B-S) (Co-numbered MAS 3A-B)
Equivalent to Mex-Am. 101 and Mex-Am 102, SFVSC
Accepted for credit, UC (all branches)

Spn 4 - HISPANIC CULTURE & CIVILIZATION 2 Units
Prerequisites: One year college Spanish or reading ability in Spanish.
3 hours lecture weekly.
Reading and discussion in Spanish of the civilization and culture of the Spanish speaking countries, emphasizing one or two countries each semester. (Co-Number Engl 28)

Spn 22A-B - DIRECTED STUDIES IN SPANISH 1,3/1,3 Units
Prerequisite: A course in the specific 'field' and consent of instructor and Division Chairman.
1-3 hours tutorial weekly.
Designated for selected students who are interested in furthering their knowledge of Spanish on an independent study basis. Assigned problems will involve library and field work. Maximum of 6 units. (F,S)

Spn 31A - BEGINNING CONVERSATIONAL SPANISH 3 Units
Prerequisites: None
3 hours lecture weekly.
An introductory course for non-native speakers of Spanish, including elementary grammar and principles of usage. Designed for students who wish to understand and use Spanish in practical situations. Preliminary course for transfer students with no language background at all. (F)

Spn 31B - INTERMEDIATE CONVERSATIONAL SPANISH 3 Units
Prerequisites: Spn 31A or consent of instructor
3 hours lecture weekly.
An intermediate course for non-native speakers of Spanish, including grammar and principles of usage. Designed to develop basic conversational Spanish, but who wish to continue work in this area. (S)

Spn 31C - ADVANCED CONVERSATIONAL SPANISH 3 Units
Prerequisites: Son 31B or consent of instructor
3 hours lecture weekly.
This course emphasizes correct oral communication in Spanish. It is especially geared for the student with a Spanish speaking background. The music, art, literature and architecture of Mexico and Spanish America will serve as the main topics of oral presentation and discussion. (F)
SPN 32A-B-C - CONVERSATIONAL SPANISH FOR PUBLIC EMPLOYEES
Prerequisites: None
3 hours lecture (6 weeks for 1 unit)
Course for non-native speakers of Spanish, designed especially for practical situations of civil employees such as those in law enforcement, welfare, probation, etc.
(See English 1 offerings for courses covering Spanish literature in translation.)

SPEECH

Speech 1 - INTRODUCTION TO SPEECH
Prerequisite: Eligibility for Engl 1
3 hours lecture weekly.
Training and practice in the basic principles of effective oral communication through participation in public speaking, group discussion, and oral reading; emphasis on developing constructive attitudes, organized thinking, proper use of voice and body, and discriminative listening.
Equivalent to Speech 195, SFVSC
Accepted for credit, UC (all branches)

Speech 2 - ELEMENTS OF PUBLIC SPEAKING
Prerequisites: Speech 1 or consent of instructor.
3 hours lecture weekly.
Preparation and formal delivery of various types of speeches, particularly those types requiring persuasive rhetoric; special attention to content and organization, audience motivation, and evaluation; participation in group discussion with practice in parliamentary procedure.
Required of speech majors.
Equivalent to Speech 220, SFVSC
Accepted for credit, JC (all branches)

Speech 3 - VOICE AND DICTION
Prerequisites: None
3 hours lecture weekly.
Individual speech improvement instruction and practice in correct breathing, voice control and diction. The study of correct pronunciation, enunciation and voice production, including the study of dialects, foreign and regional. This course is designed for students in drama, forensics, broadcasting or education. (Co-number THA-3, Broad B)
Equivalent to Drama 106, SFVSC

Speech 5 - ELEMENTARY ORAL INTERPRETATION
Prerequisite: Speech 1 or consent of instructor.
3 hours lecture weekly.
Principles and techniques of oral reading of prose and poetry with understanding and appreciation; evaluation of the literature selected for reading.
Equivalent to Speech 104, SFVSC
Accepted for credit, UC (all branches)

Speech 7 - ARGUMENTATION
Prerequisites: None
3 hours lecture weekly
Principles of rhetorical argument; using evidence, detecting fallacies in argument, preparing briefs, and delivering persuasive arguments. Extensive research is expected for effective formulation and critical analysis of persuasive discourses.
Equivalent to Speech 226, SFVSC

Speech 10A-B-C-D - FORENSICS
Prerequisites: None
1 hour lecture, 3 hours laboratory weekly
A presentation of the principles and practices of argumentation and debate, with emphasis upon research into contemporary social problems and the analysis of significant issues as based upon organized reasoning, evidence and logic. Practice and criticism of competitive speeches will be conducted before college groups. Students are expected to participate in interscholastic debate and speech tournaments which take place during the week & weekends throughout the college year.
Equivalent to Speech 198, SFVSC
THEATRE ARTS

THA 2A-B - FUNDAMENTALS OF ACTING
Prerequisites: None
2 hours lecture, 3 hours rehearsal, 1½ hours laboratory weekly.
Introduction to acting techniques and development of characterization; exercises in pantomime, improvisation, movement, voice, and rhythm; practical experience in acting on stage. Laboratory activities fulfill P.E. requirement toward AA degree.
Equivalent to Drama 106, Drama 200, SFVSC
Accepted for credit, UC (all branches)

THA 3 - VOICE AND DICTION
Prerequisites: None
3 hours lecture weekly
Individual speech improvement instruction and practice in correct breathing, voice control and diction. The study of correct pronunciation, enunciation and voice production, including the study of dialects, foreign and regional. This course is designed for students in drama, forensics, broadcasting or education. (Co-requisite Speech 3, Bread B)

THA 10A-B-C-D - REHEARSAL AND PERFORMANCE
Prerequisites: Consent of instructor
6 hours rehearsal weekly,
Supervised acting in performance of college-sponsored drama production, experience in all activities related to theatre presentations.
Equivalent to Drama 100, SFVSC (Max. of 4 units)
Accepted for credit, UC (all branches) (Max. of 4 units)

THA 11A-B - CONTEMPORARY MEXICAN AMERICAN THEATRE
Prerequisites: Satisfactory score on placement test
A - 3 hours lecture weekly
B - 3 hours laboratory weekly
Through theatre and music, studying and presenting the Chicano community and movement. (Co-renumbered MAS 12A-B)

THA 13 - TECHNICAL THEATRE, SUMMER THEATRE
Prerequisites: None
2 hours rehearsal weekly
The design and construction of sets and properties; in addition, the operation of lighting and sound equipment for the summer stock theatre production.

THA 14 - ACTING, SUMMER STOCK
Prerequisites: None
9 hours rehearsal weekly
Participation as an actor in the summer stock theatre productions.

THA 15A - DIRECTING
Prerequisites: THA 2A and permission of instructor
6 hours rehearsal weekly
Study of the craft and art of stage direction, past and present day. Practical experience in direction of scenes by major playwrights. Coordinate activities with THA 29.

THA 15B - DIRECTING
Prerequisites: THA 15A
6 hours rehearsal weekly
Directing scenes and one-act plays by major playwrights. Coordinate activities with THA 29.

THA 20A-B-C-D - THEATRE PRODUCTION
Prerequisites: None
2 hours lecture, 3 hours laboratory weekly
Lectures and demonstrations in the theatre and its equipment: design, construction and handling of stage scenery, properties, lighting, costumes, make-up and techniques of production, including practical laboratory experience as members of crews for department productions.
Equivalent to Drama 103, SFVSC
Accepted for credit, UC (all branches)

THA 22A-B - DIRECTED STUDIES IN THEATRE
Prerequisites: A course in the specific field and consent of the instructor
1-3 hours lecture weekly
Designed for selected students who are interested in furthering their knowledge of the Theatre on an independent study basis. Requires a final written report of all work. Maximum of 6 units.

THA 24 - INTRODUCTION TO THE THEATRE
Prerequisites: Satisfactory score on placement test.
3 hours lecture weekly.
Introduction to the theatre as an art form; appreciation of the theatre, past and present.
Accepted for credit, UC (all branches)
Equivalent to Drama 150, SFVSC

THA 25 - PLAYWRITING
Prerequisites: None
3 hours lecture weekly.
Designed for the student to develop his skills in writing for the theatre with a possible opportunity of production. (Co-number Eng1 25)
Accepted for credit, UC (all branches)

UBER STUDIES

Urban 1A-B - CONTEMPORARY URBAN ISSUES
Prerequisites: Enrollment in vocational program in Urban Studies or satisfactory score on placement test.
2 hours lecture, 3 hours laboratory weekly
An interdisciplinary course focusing on the variety of current issues related to the urban setting such as housing, education, law enforcement, racial conflict, pollution, land use and open space, urban renewal, and the government structure and fiscal necessity to meet the needs of people in the urban setting. Emphasis will be placed on field research in addition to lectures and library study. (15 units of the social science general education requirement under Section C and 3 units of breadth credit.)

Urban 22A-B - DIRECTED STUDIES IN SELECTED URBAN ISSUES
Prerequisites: A course in the specific field and consent of the Institute Director
1-3 hours lecture weekly.
Designed for selected students who are interested in furthering their knowledge of urban issues on an independent study basis. Assigned topics will involve library, laboratory, and field study. Maximum of six units can be taken.

Urban 49A-B - DIRECTED WORK EXPERIENCE IN URBAN STUDIES
Prerequisites: Consent of instructor and director of Institute
5 - 10 hours weekly
On-the-job training for students under the supervision of instructor and employer. An introduction to policies, program practices and procedures in specific fields. Maximum of six units.

A number of special occupational programs are offered at Ventura College. Moorpark College students may well consider taking courses at both colleges and completing certain major requirements at Ventura. Programs in the following majors are specially offered at Ventura:

- Agriculture Mechanics
- Citrus-Avocado
- Crop Production
- Automotive Technology
- Welding
- Machine Shop
- Vocational Nursing (LVN)
- Registered Nursing (RN)
## STATE COLLEGE
### GENERAL EDUCATION REQUIREMENTS

A Moorpark College student transferring to one of the California state colleges with 60 units of credit will satisfy the General Education breadth requirements for a bachelor's degree from the state college by completing the 40% General Education pattern below. (The student is advised to consult the catalog of the state college he plans to attend for requirements unique to that college.)

<table>
<thead>
<tr>
<th>I. NATURAL SCIENCES</th>
<th>9 Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>II. HUMANITIES</td>
<td>9 Units</td>
</tr>
<tr>
<td>II. SOCIAL SCIENCES</td>
<td>9 Units</td>
</tr>
<tr>
<td>III. BASIC SKILLS</td>
<td>3½ Units</td>
</tr>
<tr>
<td>IV. BREADTH</td>
<td>6 Units</td>
</tr>
<tr>
<td>V. PHYSICAL EDUCATION &amp; HEALTH</td>
<td>4 Units</td>
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<tr>
<td>TOTAL</td>
<td>40½ Units</td>
</tr>
</tbody>
</table>

### 1. NATURAL SCIENCES

A minimum of 9 units of Natural Sciences with at least one course from each of the following groups and including one laboratory course from either group.

**GROUP A**

- **Gen. 1** General Human Anatomy
- **Anthro 1** Physical Anthropology
- **Biol 1** Principles of Biology
- **Biol 2A** General Biology
- **Biol 2B** General Biology
- **Biol 3A** Marine Biology
- **Biol 3B** Marine Biology
- **Biol 10** Seashore Life
- **Bot 1** General Botany
- **Bot 3** Plant Identification
- **Environ Sci 2** Environmental Science II
- **Micro 1** Principles of Microbiology
- **Phys 1** Introduction to Human Physiology
- **Zoo 3** Biology of the Vertebrates

**GROUP B**

- **Chem 1A** General Chemistry
- **Chem 1B** General Chemistry
- **Chem 5** Quantitative Analysis
- **Chem 7A** Organic Chemistry
- **Chem 7I** Organic Chemistry
- **Chem 12** Elementary Chemistry I
- **Chem 13** Elementary Chemistry II
- **Environ Sci 1** Environmental Science I
- **Geog 1** Physical Geography
- **Geol 2** Physical Geology
- **Geol 3** Historical Geology
- **Geol 15** Mineralogy & Crystallography
- **Geol 16** Petrology
- **Geol 21** Geology of California
- **Geol 31** Rocks and Minerals
- **Geol 42** Physical Geology Lab.
- **Geol 33** Introduction to Geologic MAPPING
- **Geol 41** Geology of National Parks and Monuments
- **Geol 51** Western Field Geology
- **Ph 2A** General Physics
- **Ph 2B** General Physics
- **Ph 3** The Arts of Experimental Investigation
- **Ph 4A** Mechanics of Solids
- **Ph 4B** Mechanics of Fluids, Heat and Sound
- **Ph 4C** Electricity and Magnetism
- **Ph 4D** Optics and Modern Physics
- **Ph 10** Descriptive Physics
- **Ph 11A** Technical Physics
- **Ph 11B** Technical Physics
- **Phys Sci 1** Introduction to Physical Science
- **Phys Sci 5** Introduction to Meteorology
- **Phys Sci 10** Sky and Telescope

### 2. HUMANITIES

A minimum of 9 units from the Humanities with at least one course from each of the following groups:

**GROUP A**

- **Eng 10A/B** Creative Writing
- **Eng 11** Radio & Television Writing
- **Eng 13** Major Mexican Writers
- **Eng 16A/B** Survey of Eng Lit
- **Eng 17** Shakespeare
- **Eng 18** Modern American Novel
- **Eng 19** Intro to Short Story
- **Eng 21** Contemporary Novels
- **Eng 25/26** Playwriting
- **Eng 27/28** Contemporary French Literature
- **Eng 29/30** Contemporary American Literature
- **Eng 30** Masterpieces of World Lit
- **Eng 31** Masterpieces of World Lit
- **Eng 35A/B** Survey of American Lit
- **Eng 45** Mexican American Lit in English
- **Eng 46** Afro-American Lit in English

### Foreign Language

- **Hist 1A/B** Western Civilization
- **Hist 4** History of Mexican People in SW
- **Hist 2** News Reporting and Writing
- **MAS 2** Mexican-American Culture
- **MAS 13/14** Contemporary Mexican-American Theatre

### 3. SOCIAL SCIENCES

A minimum of 9 units from the Social Sciences with at least one course from each of the following groups:

**GROUP A**

- **Hist 5** United States History
- **Hist 7A/B** Social/Political History of US
- **MAS 4/4H** History of the Mexican People in the SW

**GROUP B**

- **PSCI 1** Intro to Government
- **PSCI 2** Comparative Government
- **PSCI 3** American Government
- **PSCI 8/MAS 8** Political Patterns in the U.S.
- **PSCI 9** Adjustment of Social Issues
- **PSCI 10** Intro to Public Administration
- **Urban 1TAB** Contemporary Urban Issues
GROUP C
Anthro 2  Cultural Anthropology
Anthro 3  Archeology
Anthro 5  Field Archeology
Anthro 7  Peoples & Cultures of World
BSc 1  Intro to Behavioral Sciences
BSc 2  Interpersonal Behavior
Econ 1A/B  Principles of Economics
Geog 2  Elements of Cultural Greg
Geog 3  Geog of World Affairs
Geog 9  Environmental Design
Geog 10  Geog of California
Hist 3  Afro-American History
Hist 8  History of California
Hist 9A/B  History of the Americas
Hist 10A/B  African History
Hist 15A/B  Intro to History of Asia
MAS 1  Mexican American in Contemporary Society
MAS 7  Field Work in Barrio Studies
PS 4  International Relations
PSc 7  Minority Groups
PsyCh 1A  Intro to Psychology
PsyCh 1B  Intro to Experimental Psych
PsyCh 2  General Psychology
PsyCh 3  Personal & Social Adjustment
PsyCh 4  Child Psychology
PsyCh 5  Social Psychology
Soc 1  Intro to Sociology
Soc 2  Social Problems
Soc 3  Social Analysis
Soc 5  Minority Group Relations

4. BASIC SKILLS
A minimum of 3/4 units with at least one course from each of the following groups:

GROUP A
One 1 1/2 unit course from the English 1 series (in addition to courses from Section 2, Group B)

GROUP B
Read 4A  Techniques of Reading
Math 3  Intermediate Algebra
Math 7  College Algebra & Trigonometry
Math 8  All math classes numbered above 16
Phil 2  Intro to Logic
Speech 1  Intro to Speech
Speech 2  Elements of Public Speaking
Speech 5  Elementary Oral Interpretation
Tha 2  Fundamentals of Acting
Tha 10  Rehearsal and Performance
Tha 11B  Contemporary Mexican-American Theatre

5. BREADTH ELECTIVES
A minimum of 6 units of course work from any of the courses listed in the four basic areas provided the courses are outside the student’s major. Additional courses which may be selected include the following:

Bus 42  Economics of Enterprise
Eco 35A  Child Growth and Development
Eng 4  Engineering Graphics w/Descriptive Geometry
HE 10  Nutrition
Hum 1A or 1B  Man in Society
PG 1  Personal Growth - Rap - focus (one unit only)
Rec 1  Introduction to Community Recreation.

6. PHYSICAL EDUCATION AND HEALTH
A minimum of two class hours per week of each semester in which the student is in attendance, until the graduation requirement is met. A 2-unit health education course is required.

ADMINISTRATION OF JUSTICE

LAW ENFORCEMENT
Faculty: Jack Fleming, Coordinator; James Lane, Mitchell Smith
Counselor: Bill Bendat
The police science program offers comprehensive training for a professional career in law enforcement and allied fields. This program is designed for majors in law enforcement expecting to transfer to a state college with a major in Police Science, Police Administration or Criminology, or Correctional Administration.

REQUIRED COURSES IN THE MAJOR
Fresno State College
LE 3  Introduction to Law Enforcement
LE 10  Patrol Procedures
LE 10  Traffic Control
Photo 1A  Beginning Photography
LE 26  Rescue First Aid

California State College, Los Angeles
LE 5  Intro to Law Enforcement
LE 4  Criminal Law
LE 15  Administration of Justice
LE 11  Criminal Investigation
LE 13  Traffic Control
LE 10  Patrol Procedures
LE 25  Reserve First Aid

REQUIRED GENERAL EDUCATION COURSES
Fresno
Soc 1  Introduction to Sociology
Soc 2  Social Problems
PsyCh 2  General Psychology
PsyCh 3  Personal and Social Adjustment
Speech 1  Introduction to Speech

CSCLA
Speech 1  Introduction to Speech
Soc 1  Introduction to Sociology
PsyCh 2  General Psychology
PsyCh 3  Personal and Social Adjustment

RECOMMENDED GENERAL EDUCATION COURSES
Fresno
LE 12  Defense Tactics
Speech 2  Elements of Public Speaking

CSCLA
LE 12  Defense Tactics
Photo 1A  Beginning Photography
LE 9  Firearms
Soc 2  Social Problems
Speech 2  Elements of Public Speaking

CORRECTIONAL ADMINISTRATION
Counselor: Bill Bendat
The Correctional Administration program offers comprehensive training for a professional career in corrections and allied fields. This program is designed for majors in corrections expecting to transfer to a state college with a major in Police Science, Police Administration or Criminology or Correctional Administration.

REQUIRED COURSES IN THE MAJOR
LE 4  Criminal Law
LE 7+  Minority Group Relations
LE 14+  Juvenile Procedures
LE 16+  Administration of Justice
CA 1+  Introduction to Probation, Parole, & Corrections
CA 6+  Interpersonal Relations
CA 7+  Interviewing, Counseling & Tutoring
CA 8+  Techniques of Group Counseling

REQUIRED GENERAL EDUCATION COURSES
Science
English
Hist 5  United States History
PSC 3  American Government
Art/Mus
HE 1  Health and Society
Hum. Elective
Basic Skills Elective
A student currently employed in the field may receive an In-service Certificate in CORRECTIONAL ADMINISTRATION upon successful completion of the courses marked * plus the courses marked + and 9 additional units in General Education.

RECOMMENDED COURSES FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Psyh 3</td>
<td>Personal &amp; Social Adjustment</td>
<td>3</td>
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<tr>
<td>Soc 1</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Soc 2</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>Mas 2</td>
<td>Mexican-American Culture</td>
<td>3</td>
</tr>
<tr>
<td>Speech 1</td>
<td>Introduction to Speech</td>
<td>3</td>
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*Will satisfy Hum elective

**RECOMMENDED COURSES IN THE MAJOR**

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<thead>
<tr>
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<th>Title</th>
<th>Units</th>
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<tr>
<td>LE 7</td>
<td>Minority Group Relations</td>
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<tr>
<td>LE 14</td>
<td>Juvenile Procedures</td>
<td>3</td>
</tr>
<tr>
<td>LE 15</td>
<td>Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>CA 1</td>
<td>Introduction to Probation, Parole &amp; Corrections</td>
<td>3</td>
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<tr>
<td>CA 4</td>
<td>Introduction to Counseling, Tutoring</td>
<td>3</td>
</tr>
<tr>
<td>CA 8</td>
<td>Techniques of Group Counseling</td>
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**RECOMMENDED COURSES FOR THE MAJOR**

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<tr>
<th>Course</th>
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<td>Personal and Social Adjustment</td>
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<tr>
<td>Soc 4</td>
<td>Marriage and the Family</td>
<td>3</td>
</tr>
<tr>
<td>MAS 2</td>
<td>Mexican-American Culture</td>
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<tr>
<td>Speech 1</td>
<td>Introduction to Speech</td>
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</table>

ADMINISTRATION OF JUSTICE

PEACE OFFICER

Counselor: Bill Bendat

The field of law enforcement provides many rewarding and responsible positions for both men and women law enforcement officers. This program meets the California State requirements for the Peace Officers Standard Training (POST).

**RECOMMENDED COURSES IN THE MAJOR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>LE 1</td>
<td>Introduction to Law Enforcement</td>
<td>3</td>
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<tr>
<td>LE 4</td>
<td>Criminal Law</td>
<td>3</td>
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<tr>
<td>LE 8</td>
<td>Criminal Evidence</td>
<td>3</td>
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<tr>
<td>LE 15</td>
<td>Administration of Justice</td>
<td>3</td>
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<tr>
<td>LE 9</td>
<td>Firearms</td>
<td>1</td>
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<td>TEE 7</td>
<td>Minority Group Relations</td>
<td>3</td>
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<tr>
<td>LE 10</td>
<td>Board Procedures</td>
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<td>LE 11</td>
<td>Criminal Investigation</td>
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<tr>
<td>LE 12</td>
<td>Traffic Control and Investigation</td>
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</tr>
<tr>
<td>LE 14</td>
<td>Juvenile Procedures</td>
<td>3</td>
</tr>
<tr>
<td>LE 12</td>
<td>Defense Tactics</td>
<td>1/2</td>
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<tr>
<td>LE 25</td>
<td>Rescue from Aid</td>
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**RECOMMENDED COURSES FOR THE MAJOR**

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<td>LE 5</td>
<td>Investigative Report Writing</td>
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<tr>
<td>LE 10</td>
<td>Arrest, Search and Seizure</td>
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<td>LE 18</td>
<td>Narcotics Investigation</td>
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<tr>
<td>LE 19</td>
<td>Vice Control</td>
<td>3</td>
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<tr>
<td>LE 20</td>
<td>Police Administration</td>
<td>3</td>
</tr>
<tr>
<td>LE 21</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>LE 27</td>
<td>Civil Duties and Procedures</td>
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</tr>
<tr>
<td>Photo A 1</td>
<td>Beginning Photography</td>
<td>3</td>
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<tr>
<td>Bus 11A</td>
<td>Beginning Typewriting</td>
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<tr>
<td>Pol Sci 10</td>
<td>Introduction to Public Administration</td>
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<tr>
<td>LE 50</td>
<td>Law Enforcement Institutes</td>
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PROBATION AND PAROLE ASSISTANT

Counselor: Bill Bendat

The probation-parole assistant program is designed to prepare students for a variety of correctional, supervisory, and probation assistant positions in the criminal justice field.

**RECOMMENDED COURSES IN THE MAJOR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>CA 1</td>
<td>Introduction to Probation, Parole and Corrections</td>
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<td>CA 6</td>
<td>Interpersonal Relations</td>
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<td>CA 7</td>
<td>Interviewing, Counseling, Tutoring</td>
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<tr>
<td>CA 8</td>
<td>Techniques of Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>LE 4</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>LE 1</td>
<td>Introduction to Law Enforcement</td>
<td>3</td>
</tr>
<tr>
<td>LE 14</td>
<td>Juvenile Procedures</td>
<td>3</td>
</tr>
<tr>
<td>LE 7</td>
<td>Minority Group Politics</td>
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**RECOMMENDED COURSES IN THE MAJOR**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>Soc 4</td>
<td>Marriage and the Family</td>
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<tr>
<td>Soc 8</td>
<td>Minority Group Relations</td>
<td>3</td>
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<tr>
<td>Speech 15</td>
<td>Practical Speech</td>
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<tr>
<td>Bus 51</td>
<td>Personal Management</td>
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<td>Psyh 3</td>
<td>Personal &amp; Social Adjustment</td>
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<td>Soc 22</td>
<td>Directed Studies in Sociology</td>
<td>3</td>
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<tr>
<td>Bus 11A</td>
<td>Beginning Typewriting</td>
<td>3</td>
</tr>
<tr>
<td>LE 15</td>
<td>Administration of Justice</td>
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</tr>
</tbody>
</table>

*Optional

AGRICULTURE

Faculty: Donald Anderson, R. Bruce Spiller

Counselor: Bud Camillucchi

The general agriculture major prepares students for diversified farming where a knowledge of farm crops, livestock, and farm machinery is necessary. The curriculum is not intended to replace majors of Agriculture in which students specialize in a single field. The requirements are flexible and especially well adapted to students interested in teaching vocational agriculture. Many graduates have found positions with county, state, and federal agencies, or in business and services related to agriculture.

**RECOMMENDED COURSES IN THE MAJOR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<td>Fresno State College</td>
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<tr>
<td>AH 1</td>
<td>Introduction to Animal Husbandry</td>
<td>3</td>
</tr>
<tr>
<td>AH 2</td>
<td>Feeds &amp; Feeding</td>
<td>3</td>
</tr>
<tr>
<td>Agron 1</td>
<td>Introduction to Agronomy</td>
<td>3</td>
</tr>
<tr>
<td>Ag 21</td>
<td>Soils</td>
<td>3</td>
</tr>
<tr>
<td>En 1</td>
<td>Economic Entomology</td>
<td>3</td>
</tr>
<tr>
<td>Hort 1</td>
<td>Introduction to Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>AS 2</td>
<td>Record Keeping</td>
<td>3</td>
</tr>
<tr>
<td>California Polytechnic College</td>
<td></td>
<td></td>
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<tr>
<td>AH 1</td>
<td>Introduction to Animal Husbandry</td>
<td>3</td>
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<tr>
<td>AH 2</td>
<td>Feeds &amp; Feeding</td>
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<tr>
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<td>Soils</td>
<td>3</td>
</tr>
<tr>
<td>En 1</td>
<td>Economic Entomology</td>
<td>3</td>
</tr>
<tr>
<td>Hort 1</td>
<td>Introduction to Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>AS 2</td>
<td>Record Keeping</td>
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**RECOMMENDED GENERAL EDUCATION COURSES**

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<th>Units</th>
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<tbody>
<tr>
<td>Fresno State College</td>
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<tr>
<td>Chem 12</td>
<td>Elementary Chem 1</td>
<td>4</td>
</tr>
<tr>
<td>Econ 1A</td>
<td>Principles of Economics</td>
<td>3</td>
</tr>
<tr>
<td>Math 3</td>
<td>Intermediate Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Chem 1A</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Bot 1</td>
<td>General Botany</td>
<td>5</td>
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<tr>
<td>California Polytechnic College</td>
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<td></td>
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<tr>
<td>Chem 12</td>
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</tr>
<tr>
<td>Math 1AB</td>
<td>Elementary Algebra</td>
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<tr>
<td>Bot 1</td>
<td>General Botany</td>
<td>5</td>
</tr>
<tr>
<td>Micro 1</td>
<td>Principles of Microbiology</td>
<td>5</td>
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</table>
ANIMAL HUSBANDRY/AGRI-BUSINESS

Counselor: Bud Camillucci

This program provides training in the selection, care, development, and marketing of commercial animals for sale. There are many current employment opportunities in our community, positions requiring this training, e.g., livestock grower and meat wholesaler.

REQUIRED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AH 1</td>
<td>Introduction to Animal Husbandry</td>
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<tr>
<td>AH 2</td>
<td>Feeds &amp; Feeding</td>
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</tr>
<tr>
<td>AB 1</td>
<td>Introduction to Agriculture Business</td>
<td>3</td>
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<tr>
<td>AB 2</td>
<td>Record Keeping</td>
<td>3</td>
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<tr>
<td>Agron 1</td>
<td>Introduction to Agronomy</td>
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RECOMMENDED COURSES FOR THE MAJOR

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<tr>
<td>Ag 21</td>
<td>Soils</td>
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</tr>
<tr>
<td>AH 5</td>
<td>Horse Husbandry</td>
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<td>AH 6</td>
<td>Horse Husbandry II</td>
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<tr>
<td>Speech 15</td>
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<tr>
<td>AG 22</td>
<td>Directed Studies in Agriculture</td>
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</table>

FORESTRY TECHNICIAN

Counselor: Bud Camillucci

The program in Forestry provides a broad general education in the arts and sciences to develop an individual with a broad and well-rounded education; and a core of basic courses which furnish the student with a perspective of the scientific and professional area of Forestry.

REQUIRED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Humboldt State College For 1</td>
<td>Introduction to Forestry</td>
<td>3</td>
</tr>
<tr>
<td>For 2</td>
<td>Natural Resources</td>
<td>3</td>
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<tr>
<td>Ag 21</td>
<td>Soils</td>
<td>3</td>
</tr>
<tr>
<td>Biol 2A</td>
<td>General Biology</td>
<td>4</td>
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<tr>
<td>Ent 1</td>
<td>General Botany</td>
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<tr>
<td>Bot 3</td>
<td>Plant Identification</td>
<td>4</td>
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<tr>
<td>Math 7</td>
<td>College Algebra &amp; Trigonometry</td>
<td>3</td>
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<tr>
<td>Math 26A</td>
<td>Calculus with Analytic Geometry</td>
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<td>Engr 8A</td>
<td>Plans Surveying</td>
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<td>DP 1</td>
<td>Introduction to Data Processing</td>
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<td>DP 4A</td>
<td>Computer Programming</td>
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University of California, Berkeley

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<td>Ph 2A-B</td>
<td>General Physics</td>
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<td>Econ 1A-B</td>
<td>Principles of Economics</td>
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<td>Math 15</td>
<td>Introduction to Statistics</td>
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<td>Math 16A-B</td>
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RECOMMENDED COURSES FOR THE MAJOR

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Humboldt State College Chem 12</td>
<td>Elementary Chem I</td>
<td>4</td>
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</table>

LANDSCAPE HORTICULTURE

Counselor: Bud Camillucci

This program is designed to provide a background of education and experience in Landscape Horticulture with some training in the business field. The change from rural to suburban living and development of recreational facilities is creating an increasing demand for persons in this field.

REQUIRED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Hort 1</td>
<td>Introduction to Horticulture</td>
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<tr>
<td>Hort 2</td>
<td>Plant Structure</td>
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<td>Hort 3</td>
<td>Plans Propagation</td>
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<td>Biol 25A/B</td>
<td>Turfgrass Management</td>
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<td>Hort 4</td>
<td>Plant Identification</td>
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<tr>
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<tr>
<td>Ent 1</td>
<td>Economic Entomology</td>
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<td>Ab 1</td>
<td>Introduction to Agriculture Business</td>
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<td>Hort 5</td>
<td>Landscape Construction and Maintenance</td>
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<td>Hort 6</td>
<td>Landscape Design</td>
<td>3</td>
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</tbody>
</table>

LANDSCAPE HORTICULTURE

Counselor: Bud Camillucci

This program is designed to train landscape aides or forestry technicians who assist foresters in managing and caring for both public and private forest lands. Primarily, employment opportunities are with the State and Federal Government.

REQUIRED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>For 1</td>
<td>Introduction to Forestry</td>
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<td>For 2</td>
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</tr>
<tr>
<td>For 3</td>
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<td>Hort 3</td>
<td>Plant Propagation</td>
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<td>Hort 4</td>
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<tr>
<td>Ag 21</td>
<td>Soils</td>
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</tr>
<tr>
<td>Ent 1</td>
<td>Economic Entomology</td>
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</table>

RECOMMENDED COURSES FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humboldt State College Chem 12</td>
<td>Elementary Chem I</td>
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<tr>
<td>LH 23</td>
<td>Landscape Gardening and Management</td>
<td>3</td>
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<tr>
<td>Bus 11A</td>
<td>Beginning Typewriting</td>
<td>3</td>
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<tr>
<td>Hort 3</td>
<td>Plant Structure</td>
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<tr>
<td>Bus 11B</td>
<td>Intermediate Typewriting</td>
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<td>Chem 12</td>
<td>Elementary Chemistry I</td>
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<td>ET 64</td>
<td>Intro to Machine Shop</td>
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<td>Fsc 80</td>
<td>Intro to Fire Protection</td>
<td>3</td>
</tr>
<tr>
<td>Fsc 91</td>
<td>Intro to Fire Suppression</td>
<td>3</td>
</tr>
</tbody>
</table>

ANTHROPOLOGY

ANTHROPOLOGY

Faculty: Norman Alger, Robert Lopez, Karla Roloff
Counselor: Jeff Ferguson

Anthropology is the study of man and his learned social behavior—his culture. Anthropology attempts to study all men at all times. The broadness of this approach to human behavior has made it necessary to divide the study of anthropology into the four internalized subdisciplines of cultural anthropology, physical anthropology, anthropological linguistics and archeology. The majority of anthropologists are employed in teaching or research in universities or colleges. However, there are also opportunities for employment in various government jobs or in museums. Graduate school training is a normal prerequisite for professional work in anthropology.

REQUIRED COURSES IN THE MAJOR

CULTURAL EMPHASIS

| University of California, Santa Barbara | | | | San Fernando Valley State College | | | |
|----------------------------------------|---|---|---|-----------------------------------|---|---|---|---|
| Anth 1 Physical Anthropology          | 3 | 3 | 3 | Anth 1 Physical Anthropology      | 3 |
| Anthropology 3                       | 3 | 3 | 3 | Anth 2 Cultural Anthropology      | 3 |
| Anthropology 3                       | 3 | 3 | 3 | Anth 2 Cultural Anthropology      | 3 |
| Anthropology 3                       | 3 | 3 | 3 | Choose TWO courses from the       | 3 |
| Anthropology 3                       | 3 | 3 | 3 | following:                       | 3 |
| Afro-American Studies                | 3 | 3 | 3 | History                           | 3 |
| Bicentennial                          | 3 | 3 | 3 | Mexican-American Studies         | 3 |
| Economics                              | 3 | 3 | 3 | Political Science                 | 3 |
| Geography                              | 3 | 3 | 3 | Psychology                        | 3 |
| Geology                                | 3 | 3 | 3 | Sociology                         | 3 |

| University of California, Santa Barbara | | | | San Fernando Valley State College | | | |
|----------------------------------------|---|---|---|-----------------------------------|---|---|---|---|
| Anth 1 Physical Anthropology          | 3 | 3 | 3 | Anth 1 Physical Anthropology      | 3 |
| Anthropology 3                       | 3 | 3 | 3 | Anth 2 Cultural Anthropology      | 3 |
| Anthropology 3                       | 3 | 3 | 3 | Anth 2 Cultural Anthropology      | 3 |
| Anthropology 3                       | 3 | 3 | 3 | Choose TWO courses from the       | 3 |
| Anthropology 3                       | 3 | 3 | 3 | following:                       | 3 |
| Afro-American Studies                | 3 | 3 | 3 | History                           | 3 |
| Bicentennial                          | 3 | 3 | 3 | Mexican-American Studies         | 3 |
| Economics                              | 3 | 3 | 3 | Political Science                 | 3 |
| Geography                              | 3 | 3 | 3 | Psychology                        | 3 |
| Geology                                | 3 | 3 | 3 | Sociology                         | 3 |
ART

Faculty: Kirk Aiken, Department Head; William Dodgen; Jack Noyes; Frank Sardisco; Delmore Scott; James Sturgeon; John Gray
Counselor: Carole Ginnet

For the student who is interested in art as a career, this curriculum will prepare him for advanced work in an art school, or for further intensive work in the field of his choice. If the student plans to transfer to a university he should consult the catalog of that university for requirements.

RECOMMENDED COURSES IN THE MAJOR

San Fernando Valley State College

Art 1A-B Art History 3.3
Art 4A-5B Color and Design 2.2
Art 12A-B Drawing and Composition 2.2
Art 19A Sculpture 2
Art 16A-B Painting (Fine Arts Option) 2.2
Art 8A Ceramics (Fine Arts Option) 2

University of California, Santa Barbara

Art 1A-B Art History 3.3
Art 4A-5B Color and Design 2.2
Art 12A-B Drawing & Composition 2.2
Art 16A-B Painting 2
Art 19A Sculpture 2

REQUIRED GENERAL EDUCATION COURSES

University of California, Santa Barbara

For Lan
Foreign Language (3 semesters or 5 quarters)

RECOMMENDED GENERAL EDUCATION COURSES

San Fernando Valley State College

Hist 1A-B Introduction to Western Civilization 3.3

University of California, Santa Barbara

Hist 1A-B Introduction to Western Civilization 3.3

BIOLOGICAL SCIENCES

Faculty: Clinton Schenberger, Department Head; David Bishop, William Briddie; Richard Gilman; Larry Miller; Jack Reynolds; Carol Snyder

BIOLOGY

Counselor: William Jay

The word "biology" is from two Greek words meaning "life" and "science"—or the science of life. Thus, the biologist is concerned with the world of living things—men and microbes, wild and domestic animals, plants and insects, birds and fish. Some scientists in this field conduct research to expand our knowledge about living organisms; others teach in colleges and universities and also conduct research. Still others apply biological knowledge to the solution of practical problems in drug research, agriculture, and conservation. Graduates also find satisfying employment in fisheries, forestry, wildlife management, food processing, public health, fermentation, and medical research.

RECOMMENDED COURSES IN THE MAJOR

San Fernando Valley State College

Bot 2A-B General Biology 4.4
Math 15 Introduction to Statistics 4
Chum 1A-B General Chemistry 5.5
Chum 1A-B Organic Chemistry 5.5
Ph 2A-B General Physics 4.4

University of California, Santa Barbara

Bot 2A-B General Biology 4.4
Chum 1A-B General Chemistry 5.5
Chum 1A-B Organic Chemistry 5.5
Math 16A Applied Calculus 3.3
Ph 2A-B General Physics 4.4

RECOMMENDED GENERAL EDUCATION COURSES

University of California, Santa Barbara

Hist 1A-B General Biology 4.4
For Lan Foreign Language 4.4

PHYSICAL THERAPY

Counselor: Ron Zabokci

Physical Therapists help persons with muscle, nerve, joint, or bone diseases or injuries to overcome their disabilities. A student majoring in physical therapy may anticipate employment in a doctor’s office, in a public or private hospital, in a clinic, or he may have a private practice of his own. Opportunities may also be found in public agencies, governmental services, and in industrial applications.

RECOMMENDED COURSES IN THE MAJOR

University of California, Los Angeles

Chem 1A-B General Chemistry 5.5
Bio 2A-B General Biology 4.4
Phys 1 Intro to Physiology 4
An 1 General Human Anatomy 4
Ph 2A-B General Physics 4.4
Math 7 College Alg./Trig 5

RECOMMENDED GENERAL EDUCATION COURSES

Hist 1A-B Social/Political History of U.S. 3
Pol Sci 3 American Government 3

DENTAL

Counselor: Phyllis Cool

Most graduates of the dental curriculum enter the field of general practice. However, today more and more dentists are entering the field of public health. Specialty fields such as oral surgery, orthodontics, and the control of dental disease offer opportunities for those interested and qualified in the additional work that will prepare them for those specialties.

RECOMMENDED COURSES IN THE MAJOR

University of California, Los Angeles

Chem 1A-B General Chemistry 5.5
Chem 5 Quantitative Analysis 4
Chem 7A-B Organic Chemistry 5.5
Bio 2A-B General Biology 4.4
Math 16A Applied Calculus 3

University of Southern California

Chem 1A-B General Chemistry 5.5
Chem 5 Quantitative Analysis 4
Chem 7A-B Organic Chemistry 5.5
Bio 2A-B General Biology 4.4
Math 16A Applied Calculus 3

RECOMMENDED GENERAL EDUCATION COURSES

Hist 1A-B Social/Political History of U.S. 3

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DENTAL HYGIENE

Counselor: Phyllis Cool

The major in dental hygiene prepares the student for work in a private dental office, in the field of public health, in public schools, in industrial clinics, in public and private hospitals, or as a research worker.

REQUIRED COURSES IN THE MAJOR

University of California, Los Angeles
Biol 2A-B General Biology 4,4
Chem 1A-B General Chemistry 5,5

REQUIRED GENERAL EDUCATION COURSES

Eng 1 Composition and Literature 3,3
Psych 2 General Psychology 3
For Lan Foreign Language 4,4,4

RECOMMENDED GENERAL EDUCATION COURSES

Hist 7A-B Social/Political History of U.S. 3,3
Pol Sci 3 American Government 3
Phil 1A Introduction to Philosophy 3

M EDICINE

Counselor: John Heydenreich

The field of medicine has been considered for over three thousand years to be one of the humane arts. The curriculum leading to the degree of Doctor of Medicine provides the student with the means by which he may prepare himself for the demanding profession in which he is responsible for the care of patients; for the cure and prevention of illness; and for teaching and research. Graduates may elect further training for a choice of careers; special practice in surgery; pediatrics; psychiatry; academic medicine; public health; and in industrial medicine.

REQUIRED COURSES IN THE MAJOR

University of California, Los Angeles
Chem 1A-B General Chemistry 5,5
Chem 5 Quantitative Analysis 4
Chem 7A-B Organic Chemistry 5,5
Biol 2A-B General Biology 4,4
Math 16A Applied Calculus 2

University of Southern California
Chem 1A-B General Chemistry 5,5
Chem 5 Quantitative Analysis 4
Chem 7A-B Organic Chemistry 5,5
Biol 2A-B General Biology 4,4
Math 16A Applied Calculus 3

REQUIRED GENERAL EDUCATION COURSES

UCLA
Hist 7A Social/Political History of the U.S. 3
Pol Sci 3 American Government 3
For Lan Foreign Language 4,4,4

UCLA
Psy 1A Introduction to Psychology 3
Phil 1A Introduction to Philosophy 3

BROADCASTING

Faculty: Alfred Miller, Robert Reynolds, Richard Studebaker
Counselor: Carole Ginet

There are ever increasing demands for personnel in the Broadcasting industry. The Radio and Television program provides specific pre-employment training for students wishing to prepare for careers in radio and television. It also furnishes the necessary background for students who plan to seek a baccalaureate or higher degree in the broadcasting field in a senior college. Students may plan careers in any field that involves public information or public opinion.

REQUIRED COURSES IN THE MAJOR

Transfer Program
San Fernando Valley State College
Broad 1 Mass Communications 3
Broad 2 Broadcast Studio Operations 3
Journ 2 News Reporting 3
Broad 7 Radio Production Workshop 3

University of California, Los Angeles
Tha 2A Fundamentals of Acting 3
Tha 20A-B Theatre Production 3,3
Engl 15A-B English Literature 3,3

RECOMMENDED COURSES FOR THE MAJOR

UCLA
For Lan Foreign Language 4,4,4

Broad 2 Television Workshop 3
Broad 4 Television Directing 3
Broad 5 Radio-TV Writing 3

Broad 6A-B FCC License Review 3,3

RECOMMENDED GENERAL EDUCATION COURSES

UCLA
Speech 1 Introduction to Speech 3
Speech 5 Oral Interpretation 3
Engl 10A Creative Writing 3

REQUIRED COURSES IN THE MAJOR

Non-Transfer Program

UCLA
Art 4A Color and Design 2
ET 49 Introduction to Television Systems 3
Speech 15 Practical Speech 3
Tha 2A Fundamentals of Acting 3
Broad 7 Radio Production Workshop 3

Broad 8 Voice and Diction 3
Tha 20A-B Theatre Production 3,3
Cine 2A-B Art and Techniques of Film 3,3

VETERINARY MEDICINE

Counselor: Bud Camilliuci

Career opportunities are many and varied for those trained to alleviate and prevent diseases in animals. Caring for the nation’s animals attracts the majority of the graduates into private practice. However, fields such as teaching, research, government service, space medicine, public health, bio-medical research, laboratory animal medicine, and drug research are attracting more and more of those trained in veterinary medicine.

REQUIRED COURSES IN THE MAJOR

California State College, Davis
Chem 1A-B General Chemistry 5,5
Chem 7A-B Organic Chemistry 5,5
Chem 5 Quantitative Analysis 4
Ph 2A-B General Physics 4,4
Biol 2A-B General Biology 4,4
AH 1 Intro. Animal Husbandry 3

RECOMMENDED GENERAL EDUCATION COURSES

For Lan Foreign Language 4,4
BUSINESS
Faculty: William Rodgers, Department Head; Kenneth Ainge; Sharon Biderman, Donald Bowen; Tanya Burke; Marjorie Corbell; William Dickneider; Richard Perry

BUSINESS ADMINISTRATION

Counselor: Gary Brinkman

A business administration program is designed to prepare students for eventual responsible executive positions in business and government. Training is provided also for those who wish to equip themselves for professional types of employment, such as business research and statistics, operations research, advertising, real estate appraisal, and business and economic consulting.

**REQUIRED COURSES IN THE MAJOR**

<table>
<thead>
<tr>
<th>San Fernando Valley State College</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Econ 1A-B</td>
<td>Principles of Economics</td>
</tr>
<tr>
<td>Bus 1A-B</td>
<td>Accounting Principles</td>
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<tr>
<td>Bus 32A</td>
<td>Business Law I</td>
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<tr>
<td>Math 7</td>
<td>College Algebra/Trigonometry</td>
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<tr>
<td>or Math 12</td>
<td>College Algebra w/Business Applications</td>
</tr>
<tr>
<td>or Math 16A</td>
<td>Applied Calculus</td>
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<tr>
<td>or Math 25A</td>
<td>Calculus w/Analytic Geometry I</td>
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<tr>
<td>San Jose State College</td>
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<tr>
<td>Econ 1A-B</td>
<td>Principles of Economics</td>
</tr>
<tr>
<td>Bus 1A-B</td>
<td>Accounting Principles</td>
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<tr>
<td>Bus 32A</td>
<td>Business Law I</td>
</tr>
<tr>
<td>Math 15</td>
<td>Introductory Statistics</td>
</tr>
</tbody>
</table>

**BUSINESS MANAGEMENT**

Counselor: Gary Brinkman

This program is designed to provide the student with job skills to permit him to serve in a business management position in business or industry. A student is assisted in permanent placement upon completion of the A.A. degree in Management.

**REQUIRED COURSES IN THE MAJOR**

| Bus 42  | Economics of Enterprise | 3 |
| or Bus 30*  | Introduction to Business | 3 |
| Bus 37+  | Marketing | 3 |
| Bus 31*  | Business Organization and Management | 3 |
| Bus 39*  | Business Communications | 3 |
| Bus 36  | Merchandising | 3 |
| Bus 9A-B  | Business Lectures | 1 |
| Bus 33A  | Business Law I | 3 |
| Psych 3  | Personal & Social As. | 3 |
| Bus 50*  | Elements of Supervision | 3 |
| Bus 44  | Business Mathematics | 1 |

**RECOMMENDED COURSES FOR THE MAJOR**

| Bus 40  | Personal Finance | 3 |
| or Bus 3*  | Applied Accounting | 3 |
| Econ 10  | The American Economy | 3 |
| Bus 7  | Calculating Machines | 3 |
| DP 1+  | Intro to Data Processing | 3 |
| Speech 15  | Practical Speech | 3 |
| or Bus 49A  | Directed Work Experience | 1-3 |

*A student currently employed in the field may receive an in-service Certificate in Business Management upon successful completion of the courses marked* and 6 additional units in General Education, for a total of 21 units.

+A student not currently employed in the field may receive a Pre-Service Certificate in Business Management upon successful completion of the courses marked* plus the courses marked† and 9 additional units in General Education, including 6 units of Hum 1A or Hum 1B, for a total of 30 units.

**INDUSTRIAL SUPERVISION**

Counselor: Gary Brinkman

This program is designed both for students wishing to enter into the industrial supervisory field and those who currently employed in an industry supervisory position. Students may qualify for a Certificate in Industrial Supervision that is both highly practical as well as theoretical. This program is designed to provide assistance to management in the development of qualified foremen and supervisors for industry.

**REQUIRED COURSES FOR THE MAJOR**

| Bus 50*  | Elements of Supervision | 3 |
| Bus 31*  | Business Organization & Management | 3 |
| Bus 51*  | Personnel Management | 3 |
| Bus 52*  | Labor Management Relations | 3 |
| Bus 53*  | Cost and Job Control for Supervisors | 3 |
| Bus 32A  | Business Law I | 3 |
| Bus 9A-B  | Business Lectures | 1 |
| Bus 32A  | Business Law I | 3 |
| Psych 3  | Personal & Social As. | 3 |

**RECOMMENDED COURSES FOR THE MAJOR**

| Econ 10  | American Economy | 3 |
| Bus 37  | Marketing | 3 |
| Bus 39*  | Business Communications | 3 |
| DP 1  | Intro to Data Processing | 3 |
| Bus 49A-B  | Directed Work Experience | 1-3 |
| Bus 40  | Personal Finance | 3 |
| Bus 3*  | Applied Accounting | 3 |

Evening students may substitute 6 units of General Education electives for Certificate program and 12 units for the A.A. degree.

*A student currently employed in the field may receive an In-service Certificate in INDUSTRIAL SUPERVISION upon successful completion of the courses marked* and 6 additional units in General Education, for a total of 21 units.

+A student not currently employed in the field may receive a Pre-service Certificate in INDUSTRIAL SUPERVISION upon successful completion of the courses marked* plus the courses marked† and 9 additional units in General Education, including 6 units of Hum 1A or Hum 1B, for a total of 30 units.

**RETAILING/MARKETING**

Counselor: Gary Brinkman

Training in the marketing field can lead to employment by insurance companies, manufacturing firms, retailers, and wholesalers. Sales people are required for such diverse fields as specialty shops and automobile dealers. The movement of goods and services through good marketing procedures is a prime necessity of our economic system.

**REQUIRED COURSES IN THE MAJOR**

| Bus 42  | Economics of Enterprise | 3 |
| or Bus 30*  | Introduction to Business | 3 |
| Bus 37*  | Marketing | 3 |
| Bus 35*  | Management | 3 |
| Bus 21  | Business Organization and Management | 3 |
| Bus 36*  | Retail Merchandising | 3 |
| Bus 33A  | Business Law I | 3 |
| Bus 90  | Elements of Supervision | 3 |
| Bus 9A-B  | Business Lectures | 1 |
| DP 1  | Intro to Data Processing | 3 |

**RECOMMENDED COURSES FOR THE MAJOR**

| Bus 40  | Personal Finance | 3 |
| Econ 10  | The American Economy | 3 |
| Bus 3*  | Applied Accounting | 3 |
| Bus 49A-B  | Directed Work Experience | 1-3 |
| Bus 39*  | Business Communications | 3 |
| Bus 38*  | Advertising | 3 |

*A student currently employed in the field may receive an In-service Certificate in RETAILING/MARKETING upon successful completion of the courses marked* and 6 additional units in General Education, for a total of 21 units.

+A student not currently employed in the field may receive a Pre-service Certificate in RETAILING/MARKETING upon successful completion of the courses marked* plus the courses marked† and 9 additional units in General Education, including 6 units of Hum 1A or Hum 1B, for a total of 30 units.
SECRETARY

HOME ECONOMICS

Counselor: Gary Brinkman

This program is designed to provide instruction for women in their two career fields of homemaking and business employment. The business skill of typing provides employment opportunities as a clerk-typist or receptionist and the homemaking skills provide appropriate training for the management of a family and a home environment.

REQUIRED COURSES FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 11A</td>
<td>Beginning Typewriting</td>
<td>3</td>
</tr>
<tr>
<td>Bus 11B</td>
<td>Intermediate Typewriting</td>
<td>3</td>
</tr>
<tr>
<td>Bus 40</td>
<td>Personal Finance</td>
<td>3</td>
</tr>
<tr>
<td>Bus 16</td>
<td>Office Machines</td>
<td>2</td>
</tr>
<tr>
<td>Bus 26A</td>
<td>Beginning Shorthand</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
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</tr>
<tr>
<td>Bus 42</td>
<td>Economics of Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>HE 30</td>
<td>Apparel Selection &amp; Grooming</td>
<td>3</td>
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<tr>
<td>HE 46A</td>
<td>Electives</td>
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<td>Bus 9A-B</td>
<td>Business Lectures</td>
<td>1</td>
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<td>Psych 3</td>
<td>Personal &amp; Social Adjustment</td>
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RECOMMENDED COURSES FOR THE MAJOR

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<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
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<td>Advanced Typewriting</td>
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<tr>
<td>Bus 12B</td>
<td>Production Typewriting</td>
<td>3</td>
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<tr>
<td>Soc 4</td>
<td>Marriage &amp; the Family</td>
<td>3</td>
</tr>
<tr>
<td>HE 46A</td>
<td>Directed Study</td>
<td>1-3</td>
</tr>
<tr>
<td>or</td>
<td></td>
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</tr>
<tr>
<td>Bus 49A</td>
<td>Directed Work Experience</td>
<td>1-3</td>
</tr>
<tr>
<td>DP 1</td>
<td>Intro to Data Processing</td>
<td>3</td>
</tr>
<tr>
<td>Bus 20B</td>
<td>Intermediate Shorthand</td>
<td>3</td>
</tr>
</tbody>
</table>

STENOGRAPHY

Counselor: Gary Brinkman

This program is designed to provide entry-level employment in a secretarial position requiring a high level of stenographic ability.

REQUIRED COURSES FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Bus 12A</td>
<td>Advanced Typewriting</td>
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<tr>
<td>Bus 12B</td>
<td>Production Typewriting</td>
<td>3</td>
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<td>Bus 20A</td>
<td>Beginning Shorthand</td>
<td>3</td>
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<tr>
<td>Bus 20B</td>
<td>Intermediate Shorthand</td>
<td>3</td>
</tr>
<tr>
<td>Bus 21</td>
<td>Speed Building &amp; Transcription</td>
<td>6</td>
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<tr>
<td>Bus 15</td>
<td>Secretarial Procedures</td>
<td>5</td>
</tr>
<tr>
<td>Bus 9A-B</td>
<td>Business Lectures</td>
<td>1</td>
</tr>
<tr>
<td>Bus 17</td>
<td>Calculating Machines</td>
<td>3</td>
</tr>
<tr>
<td>Bus 16</td>
<td>Office Machines</td>
<td>2</td>
</tr>
<tr>
<td>Bus 38</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>Bus 19</td>
<td>Records Management</td>
<td>2</td>
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RECOMMENDED COURSES FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Bus 49A-B</td>
<td>Directed Work Experience</td>
<td>1-3</td>
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<td>Bus 42</td>
<td>Economics of Enterprise</td>
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<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bus 30</td>
<td>Intro to Business Principles</td>
<td>3</td>
</tr>
<tr>
<td>Bus 40</td>
<td>Personal Finance</td>
<td>3</td>
</tr>
<tr>
<td>HE 30</td>
<td>Apparel Selection &amp; Grooming</td>
<td>2</td>
</tr>
<tr>
<td>Reed 4A</td>
<td>Techniques of Reading</td>
<td>2</td>
</tr>
</tbody>
</table>

TYPING

Counselor: Gary Brinkman

This program is designed to provide entry-level job skills in a secretarial position emphasizing typing and machine transcription responsibilities with a minimum amount of stenography.

REQUIRED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
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<td>Bus 12A</td>
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<td>Bus 16</td>
<td>Office Machines</td>
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<tr>
<td>Bus 9A-B</td>
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<td>Bus 40</td>
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</tr>
<tr>
<td>Bus 19*</td>
<td>Records Management</td>
<td>2</td>
</tr>
</tbody>
</table>

RECOMMENDED COURSES FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 20A</td>
<td>Beginning Shorthand</td>
<td>4</td>
</tr>
<tr>
<td>Bus 20B</td>
<td>Intermediate Shorthand</td>
<td>4</td>
</tr>
<tr>
<td>Bus 42</td>
<td>Economics of Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bus 30</td>
<td>Intro to Business Principles</td>
<td>3</td>
</tr>
<tr>
<td>Soc 4</td>
<td>Marriage in the Family</td>
<td>3</td>
</tr>
<tr>
<td>Bus 36B</td>
<td>Business Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

*A student currently employed in the field may receive an In-Service Certificate in SECRETARIAL upon successful completion of the courses marked * and 6 additional units in General Education, for a total of 21 units.

*+A student not currently employed in the field may receive a Pre-Service Certificate in SECRETARIAL upon successful completion of the courses marked * plus the courses marked + and 9 additional units in General Education, including 6 units of Hum 1A or Hum 1B, for a total of 30 units.

CHEMISTRY

Faculty: Eugene Berg, Richard Kustik, Robert Miller, David Murphy, Susan Patterson, David Wagner

Counselor: William Jay

Chemists are concerned with the composition and properties of substances and changes in their composition; they search for new knowledge of the chemistry of matter and for ways of using this knowledge. Chemistry is by far the largest field of employment in the sciences. A wide range of opportunities await the chemist in business, industry, government, and in the field of education. Approximately three-fourths of all chemists are employed by private industry in such fields as petroleum, primary metals, electrical equipment, aerospace, paper, food, and rubber. The graduate can find many applications for his training, such as teaching, research, management, production, and sales. Also government agencies of all sorts are in need of personnel with such training.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College

Chem 1A-B | General Chemistry      | 5.5   |
Chem 5    | Quantitative Analysis  | 4     |
Chem 7A   | Organic Chemistry      | 4     |
Math 25A-B-C| Calculus with Analytic Geometry | 5.5,5.5 |
Math 35   | Applied Differential Equations | 3 |
Ph 4A    | Mechanics of Solids    | 3     |
Ph 4B    | Mechanics of Fluids, Heat & Sound | 3 |
Ph 4C    | Electricity & Magnetism| 3     |
Ph 4D    | Optics & Modern Physics| 3     |
Ger 1A-B  | German                 | 4.4   |

University of California, Santa Barbara

Chem 1A-B | General Chemistry      | 5.5   |
Chem 5    | Quantitative Analysis  | 4     |
Chem 7A-B | Organic Chemistry      | 5.5   |
Math 25A-B-C| Calculus with Analytic Geometry | 5.5,5.5 |
Ph 4A    | Mechanics of Solids    | 3     |
Ph 4B    | Mechanics of Fluids, Heat & Sound | 3 |
Biol 2A  | General Biology        | 4     |
Ger 1A-B  | German                 | 4.4   |

or

Fr 1A-B  | French                 | 4.4   |
DATA PROCESSING

Faculty: Don Medley, Max Garbutt
Counselor: Knox Long

Designed to prepare students for employment in business utilizing data processing equipment. Training is provided in data processing machines, data processing systems and computer programming. Completion of this curriculum should qualify students for employment as entry-level programmers or as management trained in stored programming.

REQUERED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP 1</td>
<td>Introduction to Data Processing</td>
<td>3</td>
</tr>
<tr>
<td>DP 4A</td>
<td>Computer Programming I</td>
<td>3</td>
</tr>
<tr>
<td>DP 4B</td>
<td>Computer Programming II</td>
<td>3</td>
</tr>
<tr>
<td>DP 6</td>
<td>Data Processing Systems</td>
<td>3</td>
</tr>
<tr>
<td>DP 8</td>
<td>Computer Programming BAL</td>
<td>3</td>
</tr>
<tr>
<td>Bus 31</td>
<td>Business Organization and Management</td>
<td>3</td>
</tr>
<tr>
<td>Bus 1A+</td>
<td>Accounting Principles</td>
<td>3</td>
</tr>
<tr>
<td>Bus 1B+</td>
<td>Accounting Principles</td>
<td>3</td>
</tr>
<tr>
<td>Bus 8</td>
<td>Business Lectures</td>
<td>3</td>
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RECOMMENDED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 42</td>
<td>Economics of Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>Bus 30</td>
<td>Introduction to Business Principles</td>
<td>3</td>
</tr>
<tr>
<td>Bus 11A</td>
<td>Beginning Typing</td>
<td>2</td>
</tr>
<tr>
<td>Econ 10</td>
<td>The American Economy</td>
<td>3</td>
</tr>
<tr>
<td>Bus 37</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>DP 11</td>
<td>Keypunch Operation</td>
<td>1</td>
</tr>
<tr>
<td>Bus 39</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>Bus 45</td>
<td>Financial Institutions</td>
<td>3</td>
</tr>
<tr>
<td>Math 18</td>
<td>Computer Programming FORTRAN</td>
<td>3</td>
</tr>
</tbody>
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REQUERED GENERAL EDUCATION COURSES

<table>
<thead>
<tr>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>Hum 1A</td>
<td>6</td>
</tr>
<tr>
<td>Hum 1B</td>
<td>6</td>
</tr>
<tr>
<td>Math</td>
<td>3</td>
</tr>
</tbody>
</table>

* A student currently employed in the field may receive an In-service Certificate in DATA PROCESSING upon successful completion of the courses marked * plus 6 additional units in General Education, for a total of 21 units.

* A student not currently employed in the field may receive a Pre-service Certificate in DATA PROCESSING upon successful completion of the courses marked * plus the courses marked + and 9 additional units in General Education, including 6 units of Hum 1A or Hum 1B, for a total of 30 units.

TRANSFER MAJORS

The data processing course offerings may be used as preparation for transfer as a data processing major to specific four year schools. Students are prepared for systems analyst and program positions in industry, commerce, finance, education and government service by this curriculum.

REQUERED COURSES FOR THE TRANSFER MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cal Poly at Pomona</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP 1</td>
<td>Introduction to Data Processing</td>
<td>3</td>
</tr>
<tr>
<td>DP 4A</td>
<td>Computer Programming I</td>
<td>3</td>
</tr>
<tr>
<td>DP 4B</td>
<td>Computer Programming II</td>
<td>3</td>
</tr>
<tr>
<td>DP 6</td>
<td>Data Processing Systems</td>
<td>3</td>
</tr>
<tr>
<td>Bus 31</td>
<td>Business Organization &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>Bus 33A</td>
<td>Marketing</td>
<td>1</td>
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<tr>
<td>Bus 37</td>
<td>Accounting Principles</td>
<td>3</td>
</tr>
<tr>
<td>Bus 1A-8</td>
<td>Principles of Economics</td>
<td>3,2</td>
</tr>
<tr>
<td>Econ 1A-8</td>
<td>Principles of Economics</td>
<td>3,2</td>
</tr>
<tr>
<td>Econ 7</td>
<td>College Algebra &amp; Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>DP 18</td>
<td>Computer Programming FORTRAN</td>
<td>3</td>
</tr>
</tbody>
</table>

RECOMMENDED COURSES FOR THE TRANSFER MAJOR

<table>
<thead>
<tr>
<th>Course</th>
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<th>Units</th>
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<tbody>
<tr>
<td>Science</td>
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<tr>
<td>Eng 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Hist 5</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Pcc 3</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Art/Music</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Hum Etc.</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

EARLY CHILDHOOD DEVELOPMENT

Faculty: Dolores Deutsch, Coordinator; Dorothy Nasitir
Counselor: Phyllis Cool

Early Childhood Development courses offer students a range of academic and participatory experience in the areas of Child Growth and Development and Nursery Education. There is a developing need for trained teachers and aides to work with young children in Nursery School Programs. The increasing number of working mothers with children and the need for working with children from the economically disadvantaged groups has increased the demand in the private nursery school as well as the Headstart day centers. It is an exciting and useful career for part-time and full-time employment, for both men and women. It provides us opportunity to be of service in an area of great need.

REQUERED COURSES IN MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ECD 30A*</td>
<td>Child Growth &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>ECD 38*</td>
<td>Observation in the Nursery School</td>
<td>3</td>
</tr>
<tr>
<td>ECD 38A*-B</td>
<td>Supervised participation in the Nursery School</td>
<td>3</td>
</tr>
<tr>
<td>ECD 40*</td>
<td>Child, Family &amp; Community</td>
<td>3</td>
</tr>
<tr>
<td>ECD 41*</td>
<td>Nursery School Programs</td>
<td>3</td>
</tr>
<tr>
<td>ECD 51</td>
<td>Music in the Nursery School</td>
<td>3</td>
</tr>
<tr>
<td>ECD 52</td>
<td>Art in the Nursery School</td>
<td>3</td>
</tr>
<tr>
<td>ECD 53</td>
<td>Science in the Nursery School</td>
<td>3</td>
</tr>
<tr>
<td>ECD 54</td>
<td>Literature in the Nursery School</td>
<td>3</td>
</tr>
<tr>
<td>ECD 65</td>
<td>Creative Movement Activities for Children</td>
<td>3</td>
</tr>
<tr>
<td>Phys 2+</td>
<td>First Aid &amp; Safety</td>
<td>3</td>
</tr>
<tr>
<td>Phys 3</td>
<td>General Psychology</td>
<td>3</td>
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</tbody>
</table>

RECOMMENDED COURSES FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECD 21A</td>
<td>Growth &amp; Development of the Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>ECD 421</td>
<td>Nursery School Administration and Supervision</td>
<td>3</td>
</tr>
<tr>
<td>Soc 4</td>
<td>Marriage &amp; the Family</td>
<td>3</td>
</tr>
<tr>
<td>Psych 3</td>
<td>Personal &amp; Social Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>Psych 4</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HE 10</td>
<td>Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

* A student currently employed in the field may receive an In-service Certificate in Nursery Education upon successful completion of the courses marked * plus the courses marked + and 9 more units of General Education, including 6 units of Hum 1A or Hum 1B, for a total of 30 units.

1 Required for approval and licensing by the State Department of Social Welfare as Director and/or Administrator of a Nursery School facility.

ECONOMICS

Faculty: William Dickmeider, Peter Gucciardo, Richard Moore
Counselor: Gary Brincken

The major in economics is designed for students interested in an understanding of the operation of our economy and the operation of the business firm. The economic major leads to careers in industry or government, to graduate study in the field of economics, to professional careers as economists and to careers in teaching. The major also offers valuable preparation for careers in law and journalism.

REQUERED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Econ 1A-B</td>
<td>Principles of Economics</td>
<td>3,2</td>
</tr>
<tr>
<td>Bus 1A-B</td>
<td>Accounting Principles</td>
<td>3,2</td>
</tr>
<tr>
<td>Math 12</td>
<td>College Algebra with Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math 14</td>
<td>Finite Math</td>
<td>3</td>
</tr>
<tr>
<td>University of California, Santa Barbara</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Econ 1A-B</td>
<td>Principles of Economics</td>
<td>3,2</td>
</tr>
<tr>
<td>Math 15</td>
<td>Introductory Statistics</td>
<td>4</td>
</tr>
<tr>
<td>Math 26A</td>
<td>Calculus and Analytic Geometry</td>
<td>5</td>
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REQUERED GENERAL EDUCATION COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phil 1A</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>For Lan</td>
<td>Foreign Language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(3 semesters or 1 quarter)</td>
<td></td>
</tr>
</tbody>
</table>

63
APPLIED DESIGN TECHNOLOGY

Counselor: William Jay

The field of applied design includes Technicians, Draftsmen, and Engineering Aides performing tasks related to the design and preparation for manufacturing of mechanical and electromechanical products. Two options are offered: Mechanical Design and Industrial Design. The mechanical designer assists in the design of mechanical components and assemblies, while the industrial designer works in the preparation for manufacturer and sale of the product.

REQUIRED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 1</td>
<td>Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td>ET 3</td>
<td>Mechanical Drafting</td>
<td>2</td>
</tr>
<tr>
<td>ET 10A</td>
<td>Graphics and Engineering Sketching</td>
<td>3</td>
</tr>
<tr>
<td>ET 10A</td>
<td>Electronics Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ET 14E</td>
<td>Technical Illustration</td>
<td>2</td>
</tr>
<tr>
<td>ET 30A</td>
<td>Technical Materials</td>
<td>3</td>
</tr>
<tr>
<td>Math 3</td>
<td>Intermediate Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Math 7</td>
<td>College Algebra w/Triigonometry</td>
<td>5</td>
</tr>
<tr>
<td>Ph 11A-B</td>
<td>Technical Physics</td>
<td>4.4</td>
</tr>
<tr>
<td>Engr 46</td>
<td>Slide Rules</td>
<td>1</td>
</tr>
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RECOMMENDED COURSES FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 16A</td>
<td>Applied Calculus</td>
<td>3</td>
</tr>
</tbody>
</table>

*A student currently employed in the field may receive an In-service Certificate in APPLIED DESIGN TECHNOLOGY upon successful completion of the courses marked * and 6 additional units of General Education, for a total of 22 units.

+1 A student not currently employed in the field may receive a Pre-service Certificate in APPLIED DESIGN TECHNOLOGY upon successful completion of the courses marked * plus the courses marked either + or 1 and 9 additional units in General Education, including 6 units of Hum 1A or 1B.

CONSTRUCTION TECHNOLOGY

Counselor: John Heydnenreich

The construction industry has an ever present need for the technicians and draftsmen to do detail design, surveys, estimating, and inspection. They work closely with Architects, Civil Engineers and Contractors to assure safe and economical construction. The Construction Technology program trains technicians and draftsmen for these positions.

REQUIRED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 1</td>
<td>Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td>ET 2</td>
<td>Mechanical Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ET 3</td>
<td>Graphics and Engineering Sketching</td>
<td>3</td>
</tr>
<tr>
<td>ET 15</td>
<td>Civil Engineering Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ET 16</td>
<td>Residential Construction Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ET 17</td>
<td>Commercial Construction Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ET 30</td>
<td>Technical Materials</td>
<td>3</td>
</tr>
<tr>
<td>ET 31</td>
<td>Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ET 32</td>
<td>Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ET 34</td>
<td>Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>Engr 8A</td>
<td>Plane Surveying</td>
<td>3</td>
</tr>
<tr>
<td>Ph 11A</td>
<td>Technical Physics</td>
<td>4</td>
</tr>
<tr>
<td>Math 1A-B</td>
<td>Elementary Algebra</td>
<td>3.2</td>
</tr>
<tr>
<td>Math 2</td>
<td>Fundamentals of Geometry</td>
<td>2</td>
</tr>
<tr>
<td>Math 3</td>
<td>Intermediate Algebra</td>
<td>4</td>
</tr>
<tr>
<td>Engr 46</td>
<td>Slide Rules</td>
<td>1</td>
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RECOMMENDED COURSES FOR THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH 24</td>
<td>Landscape Design</td>
<td>3</td>
</tr>
</tbody>
</table>

ELECTRONICS ENGINEERING TECHNOLOGY

Counselor: John Heydnenreich

Technological developments in the electronics and space industries have resulted in an increased number of job opportunities for individuals who have a technical education. This education must include the development of manipulative skills and the acquiring of technical knowledge through courses of instruction. Programs with this emphasis are presently available in the areas of electronics.

REQUIRED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 1</td>
<td>Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td>ET 20A-B-C</td>
<td>Principles of Electronics</td>
<td>5,6,5</td>
</tr>
<tr>
<td>ET 2B</td>
<td>Electronic Measurement</td>
<td>3</td>
</tr>
<tr>
<td>ET 10A-B</td>
<td>Electronics Drafting</td>
<td>3.3</td>
</tr>
<tr>
<td>Math 7</td>
<td>College Algebra w/Triigonometry</td>
<td>5</td>
</tr>
<tr>
<td>Math 1A</td>
<td>The Engineer</td>
<td>3</td>
</tr>
<tr>
<td>Ph 11A-B</td>
<td>Technical Physics</td>
<td>4.4</td>
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California State Polytechnic College

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 1</td>
<td>Engineering Technology</td>
<td>3</td>
</tr>
<tr>
<td>ET 20A-B-C</td>
<td>Principles of Electronics</td>
<td>5,6,5</td>
</tr>
<tr>
<td>ET 2B</td>
<td>Electronic Measurement</td>
<td>3</td>
</tr>
<tr>
<td>ET 10A-B</td>
<td>Electronics Drafting</td>
<td>3.3</td>
</tr>
<tr>
<td>Math 7</td>
<td>College Algebra w/Triigonometry</td>
<td>5</td>
</tr>
<tr>
<td>Math 1A</td>
<td>The Engineer</td>
<td>3</td>
</tr>
<tr>
<td>Ph 11A-B</td>
<td>Technical Physics</td>
<td>4.4</td>
</tr>
</tbody>
</table>

ENGINEERING

Counselor: William Jay

Widely diversified opportunities are available to the student who obtains a Bachelor of Science or higher degree in Engineering. This degree may be conferred by private schools, state colleges, or universities after successful completion of a minimum of four years work. The first two of these four years may be completed at Moorpark College, after which the student may transfer, at the junior level, to the four-year institution of his choice. However, the program outlined is representative, and before planning a study list, the student should consult his counselor and study the catalog of the senior institution to which he expects to transfer.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engr 1</td>
<td>The Engineering Profession</td>
<td>3</td>
</tr>
<tr>
<td>Engr 2</td>
<td>Engineering Graphics w/Descriptive Geometry</td>
<td>3</td>
</tr>
<tr>
<td>Engr 9</td>
<td>Computer Solutions to Engineering Problems</td>
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</tr>
<tr>
<td>Engr 12</td>
<td>Engineering Statics &amp; Strength of Materials</td>
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<tr>
<td>Engr 18</td>
<td>Engineering Materials</td>
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<tr>
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<tr>
<td>Ph 4A</td>
<td>Mechanics of Solids</td>
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<tr>
<td>Ph 4B</td>
<td>Mechanics of Fluids, Heat &amp; Sound</td>
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<td>Chem 1A-B</td>
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University of California, Los Angeles

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<td>Engr 2</td>
<td>Engineering Graphics w/Descriptive Geometry</td>
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<td>Engr 18</td>
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<td>Ph 4C</td>
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<tr>
<td>Chem 1A-B</td>
<td>General Chemistry</td>
<td>4.4</td>
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</table>

Chemical and Nuclear Engineering students must have Engr 8A, Plane Surveying.

Electrical and Mechanical Engineering students must have Engr 15, Introduction to Circuit Analysis.

Chemical and Nuclear Engineers should contact the school to which they intend to transfer before completing this course sequence.
ENGLISH

Faculty: Sidney Adler; Judith Allen; Richard Black; John Davie; Richard Edwards; Hugo Exbach; John Hart; Diana Ho; Philip Houser; Taylor Klose; Julie Landstad; Norman Mallory; Earl Owen; Jon Popiel; Michael Seely; Pamela Sheridan; Howard Siegel; Michael Strumsh; Sinclair Wall
Counselor: Carole Gnet

Aristotle points out that history is concerned with facts, while philosophy is concerned with theory, and that it is in literature that precepts and concepts are viewed at once. Poets, writers of fiction, and dramatists are the pulse of the time. The field of literature is concerned with the psychology of the human condition, a sensitivity to the beauties, inanities, and ironies of language, and a critical understanding of great books. Classics have been defined as "Books that everyone wants to have read, but no one wants to read." In the study of literature, the great books are read and evaluated. Career opportunities include teaching, journalism, criticism, free-lance writing, radio and television writing, and trade publication work.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College
Engl 1 Composition & Literature 3.3
Engl 15A-B English Literature 3.3

University of California, Los Angeles
Engl 1 Composition & Literature 3.3
Engl 15A-B English Literature 3.3

For Lan
Foreign Language 4.4

RECOMMENDED GENERAL EDUCATION COURSES

Hist 1A-B Introduction to Western Civilization 3.3
Hist 1A Introduction to Philosophy 3

FIRE SCIENCE

Faculty: Jack Fleming, Coordinator
Counselor: John Heyderreich

This responsible and life-saving work is in demand in many communities. This program provides training to meet this demand. Class sessions may be repeated each week to adjust the working hours of the fire protection personnel.

REQUIRED COURSES IN THE MAJOR

Fsc 90+ Introduction to Fire Protection 3
Fsc 91+ Introduction to Fire Suppression 3
Fsc 92+ Fundamentals of Fire Prevention 3
Fsc 93* Fire Fighting Tactics and Strategy 3
Fsc 94 Hazardous Materials 1 3
Fsc 96* Rocket Flames and Ordnances 3
Fsc 97* Fire Hydraulics 3
Fsc 98* Fire Company Organization and Procedure 3
Fsc 100* Fire Apparatus & Equipment 3

RECOMMENDED COURSES FOR THE MAJOR

Phys Sci 1 Introduction to Physical Science 3
Bus 40 Personal Finances 3
Speech 15 Practical Speech 3
Chem 12 Elementary Chemistry 4
Psych 3 Personal & Social Adjustment 3

Elective Fire Science Electives
*A student currently employed in the field may receive an In-service Certificate in FIRE SCIENCE upon successful completion of the courses marked * and 6 additional units in General Education, for a total of 21 units.

*A student not currently employed in the field may receive a Pre-service Certificate in FIRE SCIENCE upon successful completion of the courses marked * plus the courses marked + and 9 additional units in General Education, including 6 units of Hum 1A or Hum 1B, for a total of 33 units.

FRENCH

Faculty: Philip Houser
Counselor: Phyllis Cool

With the growing interdependence of nations, persons with facility in foreign language are needed more than ever. Specialists work in such areas as anthropology, economics, political science, literature, and sociology. Still the principal area of employment is in teaching on the elementary, secondary and college levels. Other careers may be found in interpreting, translating, research, diplomacy and other government work, libraries, and the publishing business.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College & University of California, Santa Barbara
Bus 32AB Business Law 3.3
Bus 11A Beginning Typewriting 3
Bus 37 Business Organ. & Mgmtt. 3
Bus 50 Elements of Supervision 3
Bus 51 Personal Management 3
Bus 93 Real Estate Practices 3
Re 94 Real Estate Appraisal 3
Re 96 Real Estate Economics 3
Bus 26 Salaries 3
Bus 40 Personal Finance 3
Speech 15 Practical Speech 3
Psych 3 Personal & Social Adjustment 3
Econ 1AB Principles of Economics 3.3
EScontrol 48A Fire Work Experience 1.3

RECOMMENDED GENERAL EDUCATION COURSES

SFVSC
Hist 1A-B Introduction to Western Civilization 3.3

UCSB
Hist 1A-B Introduction to Western Civilization 3.3
Phil 1A Introduction to Philosophy 3

65
GEOGRAPHY
Faculty: Roger Boeckeker, Joseph Glantz
Counselor: Knox Long

Students interested in studying the earth and its peoples in their relationships and regional variations may enroll in courses which will permit them to become a major in geography. These courses allow the student to acquire a general background of these spatial relations and processes. Courses offered include both empirical and theoretical approaches in understanding geography at a variety of scales ranging from global to local. The underlying purpose of the program is to encourage analysis of why things and people are where they are.

REQUIRED COURSES IN THE MAJOR
San Fernando Valley State College
Geog 1 Physical Geography 3
Geog 2 Cultural Geography 3
Geog 3 Introduction to Meteorology 3
University of California, Los Angeles
Geog 1 Physical Geography 3
Geog 2 Cultural Geography 3

RECOMMENDED COURSES FOR THE MAJOR
Math 16A-B Applied Calculus 3, 3

GEOLOGY
Faculty: Dorothy Samecki
Counselor: William Jay

Geology is the science of the earth, and the student in this subject is engaged in one of the most fascinating of endeavors. Geologists study the earth's history, structure, and composition as revealed by rock formations and by animal and vegetable fossils. They search for fuels, minerals, and water supplies. The geologist may enter a career in such industries as mining and petroleum, work with such governmental agencies as the geological or geodetic surveys, or enter research or teaching.

REQUIRED COURSES IN THE MAJOR
(20 units from the list below are required for "AA" including starred courses.)
University of California, Riverside
California Lutheran College
California State College, San Diego
Geol 2A* Physical Geology 3
Geol 2L* Physical Geology Lab 1
Geol 31 Rocks and Minerals, Maps 2
Geol 34* Historical Geology 3
Geol 14* Mineralogy and Petrography 3
Geol 16* Petrology 3
Geol 22 Directed Studies 1-3
Geol 32* Intro to Mapping 2
Geol 41 Geology of National Parks 2

RECOMMENDED COURSES FOR THE MAJOR (AA)
Mark 46 Slide Rule 1
Chem 12 Elementary Chemistry 1 4

RECOMMENDED COURSES FOR THE TRANSFER STUDENT
Chem 1A-B General Chemistry 5, 5
Math 25A-B Calculus with Analytic Geometry 1, II 5, 5
Ph 2A-B General Physics 4, 4

GERMAN
Faculty: Jane Chapman
Counselor: Phyllis Cool

With the growing interdependence of nations, persons with facility in foreign language are needed more than ever. Specialists work in such areas as anthropology, economics, political science, literature, and sociology. Still the principal area of employment is in teaching on the elementary, secondary and college levels. Other careers may be found in interpreting, translating, research, diplomacy and other government work, libraries, and the publishing business.

REQUIRED COURSES IN THE MAJOR
San Fernando Valley State and University of California, Santa Barbara
Ger 1A-B Elementary German 2
Ger 2A-B Intermediate German 4

RECOMMENDED GENERAL EDUCATION COURSES
Hist 1A-B Introduction to Western Civilization 3, 3

GRAPHIC COMMUNICATIONS
Faculty: Tanya Burke, John Gray, Ray Hobson
Counselor: Gary Brinkman

With the printing industry anticipating a growth rate that will more than double, the field of Graphic Communications offers unlimited opportunity for those who qualify. Employment at all levels from technicians to management will be available in such areas as creative layout and design, advertising, sales, photography, lithography and bindery operations. Advantages in computer controlled equipment and chemical processes provide opportunities for the math and science oriented person as well.

REQUIRED COURSES IN THE MAJOR
COMMERCIAL ART OPTION
GC 1 Intro to Graphic Comm 2
GC 2 Dupl. Processes 2
GC 3 Copy Prin. & Composing Systems 3
GC 5A Process Cameras 3
GC 6A Advanced Process Camera 3
GC 7 Snipping & Plate Making 3
GC 8A Lithography 3
GC 8B Advanced Lithography 3
GC 9 Graphic Comm. Lab 1-2
GC 11A

RECOMMENDED COURSES IN THE MAJOR
Art 4ABC Color & Design 2, 2
Art 12AB Drawing & Composition 2, 2
Art 4A Color & Design 2
Photo 1A Beginning Photography 3
Journ 2 Newswriting & Reporting 3
Bus 30 Advertising 3
Bus 39 Business Communications 3
HISTORY

Faculty: Arthe Retini, Cecile Cussey, Joseph Gonzalez, Randolph Griffith, Ray Heaton, Knox Long
Counselor: Knox Long

Historians study the records of the past and write books and articles describing and analyzing past events, institutions, ideas and people. They may use their knowledge of the past to explain current events or to forecast. Approximately 80% of the historians today are employed in schools and colleges. Another 10% are employed in federal government agencies, non-profit foundations, research councils, libraries, and corporations.

REQUIRED COURSES IN THE MAJOR
San Fernando Valley State
Hist 1A & B Intro to Western Civilization 3.3
Hist 7A & B Social/Political History of U.S. 3.3
and one of the following:
Hist 98
Hist 108
Hist 158

University of California, Los Angeles
Hist 1A & B Intro to Western Civilization 3.3
Plus any three of the following:
Hist 9A & B
Hist 7A & B
Hist 15A & B

REQUIRED GENERAL EDUCATION COURSES
SFVSC
For Lan
Foreign Language 15 years of the same language in high school or completion of second semester of language at college or a proficiency examination.

UCLA
For Lan
Foreign Language 15 semesters or 5 quarters

Engl 1
Phil 1A & B
Phy 1
Core 2 courses in literature

HOME ECONOMICS
Faculty: Judy Crowe, Polly Stringer
Counselor: Phyllis Cool

Home Economics curriculum patterns are designed to stimulate personal development, creativity, and effective home management. In addition to preparation for a career, curricula are planned to develop techniques and skills beneficial in family and social life. Courses deal with physical, psychological, aesthetic, and economic aspects significant to our changing society.

REQURED COURSES IN THE MAJOR
San Fernando Valley State College
HE 31 Textiles 2
HE 33 Apparel Selection and Grooming 3
HE 35 Nutrition 3
University of California, Santa Barbara
HE 31 Textiles 2
HE 10 Child Growth and Development 3

REQUIRED GENERAL EDUCATION COURSES
SFVSC
Chem 12
Chem 15
Bio 2A
Bio 2C
Bio 2D
Jour 2
Bus 14
Econ 1A & B
Soc 1

UCSB
Chem 1A
Chem 1B
Chem 7
Bio 2A
Bio 2B
 Psych 2
Econ 1A
Soc 1

HOME ECONOMICS-AIRLINE HOSTESS
Counselor: Phyllis Cool

Applicants for airline stewardess training must generally meet the following basic requirements:
Age: 20 through 27
Height: 5’2” to 5’9”
Vision: 20/20 or better without glasses
Weight: 100 to 140 pounds
Marital Status: Single
Contact considered.

REQUIRED COURSES IN THE MAJOR
HE 10 Nutrition 3
HE 30 Apparel Selection and Grooming 3
HE 11 Food Preparation 3
HE 15 Child Growth and Development 3
Soci 15 Practical Speech 3
HE 16 Safety & First Aid 2
Engl 11 Time Geography 3

RECOMMENDED COURSES IN THE MAJOR
Bus 11A
Bus 20
Bus 15
Bus 20
Sec 4
Sec 15
HE 15
HE 2
HE 16

HOME ECONOMICS COSTUME DESIGN
Counselor: Phyllis Cool

Home Economics is the field of knowledge and service primarily concerned with strengthening family life through the attainment of well-being of individuals and families, the improvement of homes and the preservation value significant in home life.

PREPARATION FOR THE MAJOR
HE 31 Textiles 2
HE 32 Clothing Construction 3
HE 35 Pattern Design 3
HE 30 Apparel Selection and Grooming 3
HE 36 Advanced Pattern Design 3
HE 37 Tailoring 3
Art 15A & B
Art 4A

COLOR AND DESIGN

RECOMMENDED COURSES FOR THE MAJOR
Bus 25
Jour 1
Bus 35
Bus 34
Bus 11A

Superscript Typewriting 3
HOTEL AND RESTAURANT

Counselor: John Heydenreich

The hotels, motor inns, motels, resorts, restaurants, cafeterias, hospitals and institutional food establishments offer career opportunities leading to responsible and attractive positions in the management of these industries. The increase in leisure time and the growth of tourism all indicate a growing demand in the service industry for trained personnel.

REQUIRED COURSES IN THE MAJOR

- H& R 1* Hotel & Restaurant Orientation 1
- H& R 11* Restaurant Operations 3
- H& R 14* Food Purchasing 3
- H& R 10A* Quantity Food Preparation 4
- H& R 12* Menu Making 1
- H& R 15* Hotel and Restaurant Sanitation 1
- H& R 10B* Quantity Food Preparation 4
- Bus 46A* Directed Work Experience 1.3
- Bus 40 Personal Finance 3
- HE 10 Nutrition 3
- Bus 7 Calculating Machines 3
- H& R 17 Institutional Food Service 3
- H& R 16* Food and Beverage Control 3
- H& R 18* Food and Beverage Management and Service 3

RECOMMENDED COURSES FOR THE MAJOR

- Bus 11A Beginning Typewriting 3
- Bus 30 Introduction to Business Principles 3
- Bus 32 Small Business Management 3

* A student currently employed in the field may receive an In-service Certificate in HOTEL & RESTAURANT MANAGEMENT upon successful completion of the courses marked * and 9 additional units in General Education, for a total of 21 units.

* A student not currently employed in the field may receive a Pre-service Certificate in HOTEL & RESTAURANT MANAGEMENT upon successful completion of the courses marked * plus the courses marked + and 9 additional units in General Education, including 6 units of Hum 1A or Hum 1B, for a total of 30 units.

INSTRUCTIONAL AIDE PROGRAMS

Instructor Aide with Specialization in Communications Skills

Instructor Aide with Specialization in Mathematics

Instructor Aide Generalist

One-year, pre or In-service certificate of completion programs in lower division California state college transfer courses for students desiring to work as instructor aides in Grades K-14 before completing a Bachelor’s degree; or to enhance employment opportunities for those who are pursuing a Standard Teaching Credential requiring a Bachelor’s Degree; to complete part of the requirements for serving as a substitute teacher while helping others learn.

Actual classroom teaching experience under daily professional supervision and guidance will provide the candidate with an opportunity for exploration of interests and effectiveness in working with other college students. In addition, the course work has been carefully chosen to meet upper division professional education course prerequisites.

In order to receive the certificate in any one of the three Instructor Aide areas, the student must complete the course work with a letter grade of C or better in each course. To be an aide in Communication Skills he must also pass a proficiency test.

Subject matter specialization: Students may specialize in mathematics or in communications. See either the head of the English or the Mathematics Department for course requirements in the specialization and course recommendations in the field of general education.

JOURNALISM

Faculty: Marjorie Imbach, Lawrence Lloyd
Counselor: Carol Ginet

Journalism embraces the writing, editing, managing, and production of mass-media communication. Journalists are involved, therefore, not only in the preparation of all types of periodicals, but also in the fields of advertising, public relations, radio, television, and motion pictures. There are wide opportunities for journalists not only in newspaper and magazine writing, but also in trade, business, and labor publications, and in such specialized fields as editorial work, writing of feature articles, fiction, poetry, and drama.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College & University of Southern California

Journal 2 News Reporting 3

(EP/EC - Minor in a related field such as English, History, Political Science, or Sociology)

RECOMMENDED GENERAL EDUCATION COURSES

- SFVSC
- GC 1 Introduction to Graphic Arts 3
- For Lan Foreign Language 4, 4

- USC
- Engl 1SB Survey of English Literature 3
- Hist 1B Introductory to Western Civilization 3
- Econ 1A Principles of Economics 3
- Engl 26B Survey of American Literature 3
- For Lan Foreign Language 4, 4

LIBRARY TECHNOLOGY

Faculty: John Hurley, Michael Slama, Dale Dobson
Counselor: Phyllis Cool

There are good career opportunities in college, public, school, industry and government libraries for people specially trained in library work. Moorpark College offers programs to prepare for a library career as a Library Technician in the areas of Acquisitions, Cataloging, Loans, Reference, Audio-visual and Automation. For those students who wish to become librarians, Moorpark College offers a liberal arts program, transferable to the state colleges.

REQUIRED COURSES IN THE MAJOR

- LT 1* Introduction to Library Technology 3
- LT 2* Library Circulation Procedures 3
- LT 3* Advanced Library Clerical Techniques 3
- LT 4* Audio-Visual Clerical Techniques 3
- LT 5* Audio-Visual for the Library 3
- LT 6* Children’s Literature 3
- LT 48* Library Internship 2, 3

RECOMMENDED COURSES FOR THE MAJOR

- Bus 11A+ Beginning Typewriting 3
- Bus 11B Intermediate Typewriting 3
- DP 1+ Introduction to Data Processing 3

* A student currently employed in the field may receive an In-service Certificate in LIBRARY TECHNOLOGY upon successful completion of 15 units in the course marked * and 6 additional units in General Education, for a total of 21 units.

* A student not currently employed in the field may receive a Pre-service Certificate in LIBRARY TECHNOLOGY upon successful completion of 15 units in the courses marked * plus the courses marked + and 9 additional units in General Education, for a total of 30 units.
**MATHEMATICS**

Faculty: Christine Aquilera, Alberto Beren, Max Garbutt; James Gayle, Masato Hayashi, William Jay, Floyd Martin, Department Head, Charles Molnar, David Riley, Kokki Shindo; Robert Stevens; John Walters.

Counselor: William Jay

Math considered mathematics and music the purest of the sciences, searching out, as they do, the abstract structures of the universe. But on a less literal plane, applied mathematics develops approaches and techniques to solve practical problems in the physical, biological, and social sciences. Graduates will find careers in business, industry, and government as research mathematicians, as statisticians, as actuaries, as logicians, and as systems analysts. The field of computer science presents a new opportunity for mathematics majors.

**RECOMMENDED GENERAL EDUCATION COURSES**

- SFVSC
  - Math 20: Introduction to Modern Algebra 3
  - Math 35: Applied Differential Equations 3
  - Math 15: Introduction to Statistics 4
  - Math 18: Computer Programming FORTRAN 3
  - Math 20: Introduction to Numerical Methods 3
  - Ph 4D: Optics and Modern Physics 3

The following information offers guidelines for enrollment in mathematics courses.

The flow chart shown below illustrates the overall mathematics program as well as the various sequences of courses which may be taken by a student, depending upon his interests and needs. Initial placement in the mathematics program is dependent upon the student's ability to meet course prerequisites. In a mathematics course, a grade of C or better is required to count as satisfactory. The student is encouraged to attempt the next course in his chosen sequence of courses. A grade of D indicates that the student must repeat the course before proceeding in the sequence unless departmental approval is obtained. In addition, if more than two and one-half years have elapsed since the student has completed his highest mathematics course with a grade of C, that course should be repeated before attempting a sequel course.
MEXICAN-AMERICAN STUDIES

Faculty: Frank Fierror, Diana Ho, Amado Reynoso
Counselor: Ed Escobedo

Students enrolled in this curriculum will be involved in an intensive study of Mexican-American history and culture. Emphasis is placed on contemporary political, social and economic problems, as well as on the art, literature, and language of the Mexican-American. Successful completion of the program prepares students for work in the barrio, teaching, politics, social services and various forms of governmental employment and private industry.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College
MAS 1 Mexican-American in Contemporary Society 3
MAS 2 Mexican-American Culture 3
MAS 4A-B History of Mexican People In Southwest 3.5
MAS 6 Mexican-American Literature in Translations 3

University of California, Santa Barbara
MAS 1 Mexican-American in Contemporary Society 3
MAS 2 Mexican-American Culture 3

RECOMMENDED COURSES FOR THE MAJOR

SFVSC
Spn 2A-B Spanish for the Spanish Speaking 3.5
Spn 31C Conversational Spanish 3
Hist 5A-B History of the Americas 3.5
or
MAS 22 Directed Studies 1-3

UCSB
Spn 2A-B Spanish for the Spanish Speaking 3.5
Spn 31C Conversational Spanish 3
Hist 5A-B History of the Americas 3.5
or
MAS 22 Directed Studies 1-3

MUSIC

Faculty: Al Hyatt, Orbie Ingersoll, Sheldon Mehr, James Stemen
Counselor: Carole Jinet

It is difficult to imagine our world without music. A career in music today may involve performing solo, or in ensembles, as well as accompanying and conducting in such fields as radio, television, and the recording industry. Although most instrumental musicians play only one instrument, many are qualified to play two or more. As a rule, these musicians also specialize in either classical or popular music; only a few play both types professionally. Many musicians, in addition to their work as performers, give private lessons and/or teach in our schools. Some are employed in hospitals, working in the field of music therapy, while others work in music libraries.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College
Mus 2A-B Music Theory 4.4
Mus 5A-B Music History/Literature 3.5
Mus 12,21 Vocal/Instrumental/Ensemble 1.1

University of California, Santa Barbara
Mus 2A-B Music Theory 4.4
Mus 5A-B Music History/Lit. 2.3
Mus 24 Piano 2

REQUIRED GENERAL EDUCATION COURSES

UCSB
For Lan Foreign Language (3 semesters of 5 quarters)
German or French recommended.

RECOMMENDED GENERAL EDUCATION COURSES

SFVSC and UCSB
Hist 1A Introduction to Western Civilization 3.3
Hist 1A Introduction to Philosophy 3

PERSONAL GROWTH

The Personal Growth program, designed by the Counseling and Guidance Department, gives the student an opportunity to join a RAP-focus group which is designed to discuss problems and concerns in a group setting, usually with a group of students who have similar concerns and problems. This very effective method of problem solving is done in an informal and confidential atmosphere. The groups are primarily unstructured and facilitated by a professional counselor.

PHILOSOPHY

Faculty: Jen Cofer, Paul Fink
Counselor: Phyllis Cool

Nearly everyone is committed to a set of general principles, beliefs, and attitudes which constitutes his "philosophy of life," and which provides both a framework and a rationale for his existence. Not everyone, however, has taken the time to critically evaluate his position or to systematically consider alternative viewpoints. Philosophy courses provide an opportunity to do this by reviewing many of the theories, insights, and arguments that have been advanced by leading thinkers through the ages. Hopefully, then, the study of philosophy may help the student to develop a more well-rounded view concerning man and his place in the universe, and a more mature set of values with which to guide his conduct.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College & University of California, Los Angeles
Phil 1A Introduction to Philosophy 3.3
Phil 2 Introduction to Logic 3

REQUIRED GENERAL EDUCATION COURSES

UCF
For Lan Foreign Language 4,4,4

RECOMMENDED GENERAL EDUCATION COURSES

SFVSC
Hist 1A-B Introduction to Western Civilization 3.5
Art 2 Art History 3
Arth 2 Cultural Anthropology 3
Engl 20 World Literature 3
Engl 31 World Literature 3

UCF
Hist 1A-B Introduction to Western Civilization 3.5
Art 1 Art History 3
Econ 1A Principles of Economics 3
Arth 2 Cultural Anthropology 3
Engl 30 World Literature 3
Engl 31 World Literature 3

70
PHYSICAL EDUCATION
Faculty: Estella Basset; Don Brockett; Paul Dunham, Division Chairman; John Kenner; Modean McCallouugh; Kathy Mason; James Moore; Linda Moore; Alwyn Nordquist; Delbert Parker; George Ragsdale; Maynard Sommer; Richard Sullivan; Manuel Trevino.
Counselor: Ron Zaboki.

The physical educator plays an ever-increasing role of importance in a society preoccupied with automation and cybernetics. Physical Education provides an opportunity to motivate, organize, and teach the social, emotional, and physical aspects of man. The major in physical education is designed for students who (1) plan to teach physical education, or (2) expect to become physical education leaders in public or private programs, and (3) plan to continue the study of physical education for an advanced degree.

REQUIRED COURSES IN THE MAJOR

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San Fernando Valley State

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<td>FE 84, 86</td>
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<td>FE 81, 83</td>
<td>Professional Courses (Women)</td>
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<td>PE 85, 87</td>
<td>Professional Courses (Women)</td>
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</tr>
<tr>
<td>Rec 1A-B</td>
<td>Recreational Leadership</td>
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</tr>
<tr>
<td>An 1</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>Phy 1</td>
<td>Introduction to Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>PE 90</td>
<td>Introduction to Physical Education</td>
<td>2</td>
</tr>
</tbody>
</table>

REQUIRED GENERAL EDUCATION COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFVSC</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>Biol 2A-4</td>
<td>General Biology</td>
<td>4,4</td>
</tr>
</tbody>
</table>

RECOMMENDED GENERAL EDUCATION COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSC</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Soc 4</td>
<td>Marriage and Family</td>
<td>3</td>
</tr>
<tr>
<td>Psych 3</td>
<td>Personal and Social Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>HIS 5</td>
<td>Safety and First Aid</td>
<td>2</td>
</tr>
<tr>
<td>FE 91A-B</td>
<td>Men's Sports Officiating</td>
<td>2.2</td>
</tr>
<tr>
<td>FE 93A-B</td>
<td>Women's Sports Officiating</td>
<td>2.2</td>
</tr>
<tr>
<td>SFVSC</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>Biol 2A-4</td>
<td>General Biology</td>
<td>4,4</td>
</tr>
<tr>
<td>FE 91A-B</td>
<td>Men's Sports Officiating</td>
<td>2.2</td>
</tr>
<tr>
<td>Soc 1</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Speech 1</td>
<td>Introduction to Speech</td>
<td>3</td>
</tr>
<tr>
<td>Psych 2</td>
<td>Elements of Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Rec 1A-B</td>
<td>Recreational Leadership</td>
<td>2</td>
</tr>
<tr>
<td>HIS 5</td>
<td>Safety and First Aid</td>
<td>2</td>
</tr>
<tr>
<td>Psych 3</td>
<td>Personal and Social Adjustment</td>
<td>3</td>
</tr>
</tbody>
</table>

Graduation Requirements for the Associate of Arts Degree—To fulfill the requirements in physical education, a student is required to successfully complete four semesters of physical education activity. No more than one activity class per semester of attendance may be counted toward meeting this requirement.

Attendance Requirement—A student may be exempted from the physical education activity if (1) he or she has attained their 18th birthday prior to the first day of class or (2) if he or she has a medically excused disability approved by the school physician.

Repetition for Credit—The college policy for repeating courses for credit applies to ALL BEGINNING PHYSICAL EDUCATION ACTIVITY COURSES. You may repeat any intermediate and advanced courses along with variety sports for additional course credit. Students are encouraged to enroll in a variety of activities which have carry-over value.

Uniform Requirements—The uniform or costume appropriate for the course is required of all students. Standardized activity uniforms and other appropriate activity costumes are available in the student bookstore.

PHYSICS
Faculty: John Menzie; Fred Meyer
Counselor: William Jay

Physicists investigate and attempt to understand the fundamental laws of nature and how these laws may be formulated and put to use. The physics major is designed for students interested in gaining an understanding of these fundamental laws of nature, learning the arts of experimentation, and applying this knowledge and art to a wide range of careers. Since the knowledge of physics, and the experimental arts form a foundation for all of science and engineering, physicists have excellent opportunities in government and industry - from soil mechanics to space physics - from biophysics to the theoretical work of a high energy elementary particle physicist. There is great need in high schools, colleges and universities for teachers and research physicists.

REQUIRED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFVSC</td>
<td>Math 1B</td>
<td>Computer Programming FORTRAN</td>
</tr>
<tr>
<td>Eng 1</td>
<td>Composition and Literature</td>
<td>3</td>
</tr>
<tr>
<td>Speech 1</td>
<td>Introduction to Speech</td>
<td>3</td>
</tr>
<tr>
<td>PS 1</td>
<td>Introduction to Government</td>
<td>3</td>
</tr>
<tr>
<td>Hist 7B</td>
<td>Social &amp; Political History of the U.S.</td>
<td>3</td>
</tr>
<tr>
<td>Bio 2A</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>UCLA</td>
<td>Math 1B</td>
<td>Computer Programming FORTRAN</td>
</tr>
<tr>
<td>For 1</td>
<td>Foreign Language (German)</td>
<td>4,4</td>
</tr>
<tr>
<td>Eng 1</td>
<td>Composition and Literature</td>
<td>3</td>
</tr>
<tr>
<td>Biol 2A</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>Env 1</td>
<td>Environmental Science</td>
<td>4</td>
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RECOMMENDED GENERAL EDUCATION COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>UCSC</td>
<td>Pol Sci 1</td>
<td>Introduction to Government</td>
</tr>
<tr>
<td>Pol Sci 2</td>
<td>Comparative Government</td>
<td>3</td>
</tr>
<tr>
<td>Pol Sci 3</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>Econ 1A</td>
<td>Principle of Economics</td>
<td>3</td>
</tr>
<tr>
<td>Hist 1B</td>
<td>Introduction to Western Civilization</td>
<td>3</td>
</tr>
<tr>
<td>Hist 5A-B</td>
<td>Introduction to History of Asia</td>
<td>3,3</td>
</tr>
<tr>
<td>Psych 2</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Soc 1</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Soc 2</td>
<td>Social Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

POLITICAL SCIENCE
Faculty: William Bendat; Gerald Bridgeman; Robert Herman; Stephen Herzog; Counselor: Ed Escobedo

Political Science is the study of government. Political scientists are interested in government at every level—local, county, state, regional, national and international. Political scientists are employed in colleges, in such federal agencies as the U.S. Department of State and the U.S. Information Agency, and at the city, county, and state levels of government. They make studies of legislation and analyze the operations of government and of non-government organizations that affect legislation.

REQUIRED COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>SFVSC</td>
<td>Pol Sci 1</td>
<td>Introduction to Government</td>
</tr>
<tr>
<td>Pol Sci 2</td>
<td>Comparative Government</td>
<td>3</td>
</tr>
<tr>
<td>Pol Sci 3</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>Five courses from the following three:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>An 2</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Econ 1A or 1B</td>
<td>Principle of Economics</td>
<td>3,3</td>
</tr>
<tr>
<td>Hist 1A-B</td>
<td>Introduction to Western Civilization</td>
<td>3,3</td>
</tr>
<tr>
<td>Hist 15A-B</td>
<td>Introduction to History of Asia</td>
<td>3,3</td>
</tr>
<tr>
<td>Psych 2</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Soc 1</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Soc 2</td>
<td>Social Problems</td>
<td>3</td>
</tr>
</tbody>
</table>
PSYCHOLOGY
Faculty: Alan Lowe, Darlene Pecheco, Steven J. Pollock, Daniel Smith, Maxine Tallman
Counselor: Jeff Ferguson
Psychologists study the behavior of individuals and groups and may be found in many areas of our contemporary society. Some of the more common positions in the field of Psychology are teaching in colleges and universities, counseling, and working with maladjusted people in a clinical setting. Other fields of Psychology include developmental, industrial, experimental, personnel and human engineering. A Bachelor's degree in Psychology will satisfy the requirement for an academic major in obtaining a teaching credential, both for the elementary and secondary credentials.

REQUIRED COURSES IN THE MAJOR
San Fernando Valley State College
Psych 1A Introduction to Psychology 3
Psych 1B Introduction to Experimental Psychology 3
Math 15 Introductory Statistics 3
University of California, Santa Barbara
Psych 1A Introduction to Psychology 3
Psych 2B Intro to Experimental Psychology 3
Math 15 Introductory Statistics 4
Bio 2A General Biology 4
or
Biol 1 Principles of Biology 4
Cham 1A General Chemistry 5
Ph 2A General Physics 4
or
Ph 10 Descriptive Physics 3
Math 14 Finite Mathematics 3
or
Math 25A Calculus w/Analytic Geometry I 9

RECOMMENDED ELECTIVES
San Fernando Valley State
Biol 1 Principles of Biology 4
Phil 1A Introduction to Philosophy 3
Soc 1 Introduction to Sociology 3
University of California, Santa Barbara
Phil 1A Introduction to Philosophy 3
Soc 1 Introduction to Sociology 3

REAL ESTATE
Faculty: William Rodgers, Coordinator
Counselor: Gary Brinkman
The projected growth in the areas surrounding Moorpark College will create a demand for homes, schools, churches, shopping centers, and industrial developments. Professionally trained people in real estate will provide much of the leadership in fields of residential and industrial brokerage, property management, research and land development.

REQUIRED COURSES IN THE MAJOR
RE 91* Real Estate Principles 3
RE 92* Legal Aspects of Real Estate 3
RE 93* Real Estate Practice 3
RE 94* Real Estate Appraisal 3
RE 95* Real Estate Finance 3
RE 96* Real Estate Economics 3
Bus 3 Applied Accounting 3
Bus 4AB Business Lectures 1
Bus 36 Introduction to Business 3
Bus 36* Salesmanship 3
Bus 33 Small Business Management 3
Hum 1A-B Man in Society 6,6

RECOMMENDED COURSES FOR THE MAJOR
Bus 44 Business Mathematics 3
Bus 37 Marketing 3
Bus 38 Business Communications 3
Speech 15 Practical Speech 3
Psych 3 Social & Personal Adjustment 3
Bus 50 Elements of Supervision 3
Bus 40 Personal Finance 3
Bus 38 Advertising 3
Econ 1A-8 Principles of Economics 3,3

RECREATION
Faculty: George Ragdale
Counselor: Ronald Zobiski
The impact of leisure on our society has opened new areas for the prospective recreation leader. Career opportunities exist in numerous areas with limited opportunities for those with Associate in Arts Degrees. The major program in recreation is designed for students who plan to follow professional careers as program leaders, directors, supervisors or administrators in public or private recreation agencies.

Of major emphasis to students planning to transfer to four year schools is the report submitted to the California Society of Parks and Recreation Educators at the March, 1972 meeting in San Diego. It was recommended that six courses be taught in the Community Colleges or lower division level. These courses include Rec 1, Rec 3A-8, Rec 4 and Rec 5. Other courses offered at Moorpark College apply towards as Associate in Arts Degree in Recreation, but might not transfer to four year schools other than as elective units.

RECOMMENDED GENERAL EDUCATION COURSES
PE 90 Introduction to Physical Education 3
PE 10-S Professional Activities 2 each
PE 27 Social, Folk, Square Dance 1
HS 5 First Aid 2
Soc 1 Intro to Sociology 3
Psych 3 Personal & Social Adjustment 3
Speech 2 Elements of Public Speaking 3
or
Speech 1 Intro to Speech 3
IH 25A-B Turfgrass Management 3,3

SOCIAL WELFARE
Faculty: Kenneth Buckner
Counselor: Jeff Ferguson
Social workers are concerned with many types of social problems and needs. Among these are: physical, mental, and emotional handicaps; poverty; unemployment; broken homes; family maladjustment; anti-social behavior; limited recreational opportunities; and inadequate housing. A great variety of public and private agencies have social work programs, including public assistance programs, family and child welfare services, social services, for the crippled, disabled, and ill, and programs for the prevention of juvenile delinquency. Some specialized fields include school social work, mental health work, psychiatric social work, rehabilitation social work, group social work, and community organization work.

REQUIRED COURSES IN THE MAJOR
Fresno State College
Soc 1 Introduction to Sociology 3
Soc 2 Social Problems 3
University of California, Los Angeles
Soc 1 Introduction to Sociology 3
Soc 2 Social Problems 3
Hum 15 Introductory Statistics 4

UCLA
RECOMMENDED GENERAL EDUCATION COURSES
E ics
For Lan Foreign Language 4,4,4

72
SOCIIOLOGY

Faculty: Kenneth Buckner, Walter Losner, Elizabeth Vance
Counselor: Jeff Ferguson

Sociologists study the many groups and institutions which man forms—families, tribes, communities, nations, and states. They study the behavior and interaction of groups, trace their origin and growth, and analyze the influence of group activities on individual members, individual members' influence on groups and on other individuals. Sociologists may study individuals, families or communities in an attempt to discover the causes of social problems such as crime, juvenile delinquency, alcoholism, poverty, and dependency. About three-fourths of the sociologists—people in research and administrative positions, as well as teachers—work in colleges and universities. About one-tenth are in federal, state, local, or international government agencies; the rest work in private industry or for welfare or other non-profit organizations or are self-employed.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College
Soc 1 Introduction to Sociology 3
Soc 2 Principles of Economics 3
Soc 3 Social Analysis 3
Soc 15 Introductory Statistics 4

University of California, Santa Barbara
Soc 1 Introduction to Sociology 3
Soc 15 Introductory Statistics 4
Psych 1A Introduction to Psychology 3

Suggested Electives:
Psych 1A Introduction to Psychology 3
Soc 2 Cultural Anthropology 3
Econ 1A Principles of Economics 3
Soc 3 Social Problems 3
Soc 3 Social Analysis 3

Math 15 Introductory Statistics 4

RECOMMENDED COURSES

UCSB
For Lan
General Speech Major:

Tha 2A Introduction to the Theatre 3
Hist 1A History of the American 3
Hist 1A History of the American 3

Speech & Hearing Major:

Psych 2 Personal and Social Adjustment 3
Rhetoric and Public Address Major:

Econ 1A Principles of Economics 3
Hist 1A History of the Western Civilization 3
Hist 2A History of the World 3
Hist 2A History of the World 3

Combined Speech and Dramatic Art:

Tha 2A Fundamentals of Acting 3
Hist 1A History of the American 3
Hist 1A History of the American 3

Tha 2A Thetra Production 3
Tha 2A Thetra Production 3
Tha 2A Thetra Production 3

UCSB

Psych 2 General Psychology 3

SPEECH

Faculty: Sidney Adler; C. Tod Forner; Carole Ginet; Roland Glover; Robert Reynolds; Richard Strong
Counselor: Carole Ginet

Speech, or rhetoric as it was once called, is one of the oldest and most revered of the liberal arts. In addition to studying the history of oration and debate from Pericles and Cicerone to the present, students now enter such specialized fields as speech therapy (working with mentally retarded, deaf and hard of hearing, and psychologically disturbed), child welfare, psychology, and counseling.

REQUIRED GENERAL EDUCATION COURSES

San Fernando Valley State College
Speech 1 Introduction to Speech 3
Speech 2 Public Speaking 3
Speech 6 Oral Interpretation 3
Speech 9 not required for Speech Correction

University of California, Santa Barbara
Speech 1 Introduction to Speech 3
Speech 2 Introduction to Radio-TV Broadcasting (Rhetoric & Public Address Major) 3
Speech 5 Oral Interpretation 3
Speech 9 Speech & Drama Major 3

THEATRE ARTS

Faculty: C. Tod Forner; Robert Reynolds, Department Head
Counselor: Carole Ginet

"All the world's a stage, and all the men and women merely players." A good play holds the mirror up to life, and actors are the "brief chronicles" of our time. But the play also requires a host of supporting personnel, including directors, writers, costume designers, sound and light technicians, stage and theatre designers.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College
Tha 2A Fundamentals of Acting 3
Tha 204-8 Theatre Production 3

University of California, Santa Barbara
Tha 2A Fundamentals of Acting 3
Tha 204-8 Theatre Production 3

RECOMMENDED COURSES

UCSB
For Lan

Art 2 Art Appreciation 3
Music 1 Music Appreciation 3
Phil 1A Introduction to Philosophy 3
Phil 2 Modern Drama 3
Psych 3 Personal and Social Adjustment 3
Soc 1A Cultural Anthropology 3

SPANISH

Faculty: Beverly Pearson, Amado Reynoso
Counselor: Phyllis Cool

With the growing interdependence of nations, persons with facility in foreign languages are needed more than ever. Specialists work in such areas as anthropology, economics, political science, literature, and sociology. Still the principal area of employment is in teaching on the elementary, secondary and college levels. Other careers may be found in interpreting, translating, research, diplomacy and other government work, libraries, and the publishing business.

REQUIRED COURSES IN THE MAJOR

San Fernando Valley State College and University of California, Santa Barbara
Spn 1A-8 Elementary Spanish 4,4
Spn 2A-8 Intermediate Spanish 4,4

RECOMMENDED GENERAL EDUCATION COURSES

Hist 1A-8 History of the Americas 3,3

Hist 1A-8 History of the Americas 3,3

Hist 1A-8 History of the Americas 3,3

Hist 1A-8 History of the Americas 3,3
BLACK, RICHARD L. (1968) English
B.A., M.A., University of California, Santa Barbara
Experience: Student Teaching, Santa Barbara City College

BOEDECKER, ROGER W. (1967) Chairperson, Division of Social Sciences
B.A., M.A., Long Beach State; Graduate Work at Claremont Graduate School, Eastern Oregon College, University of California, Riverside, University of California, Santa Barbara and Los Angeles State Colleges
Experience: Instructor, Westminster Intermediate School, Huntington Beach High School, Rim of the World High School

BOWEN, DONALD C. (1967) Business Administration
B.S., San Diego State College; M.B.A., University of California, Los Angeles; Graduate work at University of Southern California, Los Angeles State College, and San Fernando Valley State College
Experience: Bank Auditor, computer operator and controller in Los Angeles

BRIDGEMAN, GERALD (1969) Political Science
A.B., M.A., University of California, Berkeley
Experience: Instructor, Yuba College, Kauai High School, Hawaii; Lick-Wilmerding School, San Francisco

BRINKMAN, GARY W. (1967) Counselor
A.B., San Diego State College; B.S., Brigham Young University; M.A., California State Polytechnic College; Ed.D., Brigham Young University
Experience: Instructor, King City High School, LaHabra High School; Administrative Assistant, Brigham Young University

BRISBY, WILLIAM L. (1969) Biology
B.S., Colorado State University; M.S., University of Southern California
Experience: Science Education Consultant, State of California; Director Marine Biology Institute, Naval Missile Center, National Science Foundation, University of California, Santa Barbara; Research Biologist, Naval Missile Center; Industrial Consultant Marine Biology; Chairman, Science Department, Fillmore High School

BRACKETT, DONALD (1970) Health Science
B.A., M.A., Fresno State College
Experience: Instructor, Camarillo High School, Rio Mesa High School, Anahiem Union High School District

BUCKNER, KENNETH (1968) Sociology
B.S., M.A., University of Southern California
Experience: Instructor, Los Angeles City Colleges, Burbank High School, Santa Monica City College

BURKE, TANYA L. (1967) Business Education
B.S., M.A., Western Michigan University; Graduate work at San Fernando Valley State College
Experience: Instructor, Western Michigan University, Elk Grove High School

CAMILLUCCI, LEWIS (1969) Associate Dean of Students Counseling
B.A., M.A., San Jose State College
Experience: Chairman of Counseling, Channel Islands High School; Counselor, Oxnard High School; Instructor, Hueman High School, Oxnard High School; NDEA Counseling and Guidance Institute, Atlanta University

CHAPMAN, JANE M. (1968) Foreign Language
B.S., M.A., Purdue University
Experience: Instructor, Los Angeles, Glendale School Districts, Glendale College

COOL, PHYLLIS (1970) Counselor
B.A., La Verne College; M.S., San Diego State College

COPSEY, CECILE M. (1968) History
B.A., University of California, Berkeley; M.A., University of California, Los Angeles
Experience: Instructor, Golden West College; Santa Monica City College

CORBELL, MARJORIE (1970) Secretarial
A.A., Kansas City Junior College, B.S., Central Missouri State College

COSTER, JAN KILIAN (1972) Philosophy
B.A., Harvard University, Massachusetts; M.A., University of California, Santa Barbara
Experience: Instructor, Santa Barbara Community College

CROW, JUDY L. (1968) Home Economics
B.S., University of California, Los Angeles; M.S., San Fernando Valley State College
Experience: Southern California Gas Company Home Economist

DAVIE, JOHN (1971) English
B.A., Southwestern at Memphis, Tennessee; M.A., University of California, Santa Barbara
Experience: Teaching Assistant and Associate, University of California, Santa Barbara

DEUTSCH, DOLORES (1970) Nursery School
B.A., University of California; M.A., San Fernando Valley State College
Experience: Director, Tarzana Parent Cooperative Nursery School; Principal and Acting Director of San Fernando Valley State College Pre-School Laboratory; Instructor of Education, San Fernando Valley State College

DICKNEIDER, WILLIAM C. (1969) Economics
B.S., M.A., University of California, Los Angeles
Experience: Accounting department, Pacific Lighting Gas Supply Co., Los Angeles; Instructor, Santa Monica City College, Peace Corps, Peru

ADLER, SIDNEY (1968) English
B.A., M.A., City College of New York; Graduate work, New York University; Ph.D., University of Southern California
Experience: Instructor, New York City College, Morningside High School, Inglewood; UCSC Extension

AGUILERA, CHRISTINE S. (1972) Mathematics
B.A., University of California, Irvine; M.A., University of California, San Diego
Experience: T.A. - University of California, San Diego

AIKEN, KIRK (1969) Department Head, Art
B.A., University of Southern California; M.A., University of California, Los Angeles
Experience: Instructor Harvard High School; Shows at CCLA Gallery, University of California, Los Angeles; Graduate Study, Brigham Young University
Experience: Department Manager, Sears, Roebuck and Company; Sales Agent, Underwriter, Allstate Insurance Company; Instructor and Coordinator, Pasadena City College

ALGER, NORMAN (1970) Anthropology
B.S., University of Washington; M.A., University of California, Santa Barbara
Experience: Teaching Assistant, University of California Santa Barbara, Arizona State University; Instructor, University of California, Santa Barbara Extension, San Fernando Valley State College Extension

ALLEN, JUDITH (1968) English
A.B., University of California, Los Angeles; M.A., Stanford State College
Experience: Teaching Assistant, University of Southern California; Instructor, California State Polytechnic College, San Luis Obispo and California State College, Los Angeles

ANDERSON, DONALD (1968) Agriculture
B.S., Fresno State; M.A., California Polytechnic College, San Luis Obispo
Experience: North American Aviation, Special Technicians, Engineering Department; Instructor, Sanger High School

BAIGETT, ESTELLA M. (1967) College Nurse, Health Education R.N., Saint Mary's Hospital School of Nursing, Rochester, New York; M.S., State University College Brockport, New York; M.P.H., University of California, Los Angeles
Experience: Director of Health Services, State University College, Geneva, New York; Associate Professor-Health Education, State University College, Brockport, New York; Health Administrators Workshop, Brigham Young University, June, 1970

BENDAT, WILLIAM I. (1970) Counseling/Political Science
B.A., University of California, Los Angeles; M.A., San Diego State College; Graduate Study, Los Angeles State College, San Fernando Valley State College
Experience: NDEA Year Grants; Consultant-group Counselor, Los Angeles City Schools and Tacoma City Schools; Instructor, Los Angeles City Colleges, Pierce College

BERG, EUGENE (1970) Chemistry
A.B., University of California, Los Angeles; M.S., University of California, Long Beach; Ph.D., University of California, Los Angeles
Experience: Instructor, California State College, Long Beach, University High School

BERON, ALBERTO (1971) Mathematics
B.S., M.A., California State College
Experience: Mathematics consultant, California State Department of Education; Instructor, University of California, Los Angeles; Poppemperature University

BETTINI, ARTHUR J. (1967) History
B.A., M.A., University of California, Los Angeles
Experience: Supervising teacher, University of California Psychology Clinic School; Instructor, Inglewood High School; Inglewood Adult Evening School, Inglewood College

BIDERMAN, SHARON (1972) Secretarial
B.A., Cornell College, Iowa
Experience: Secretary, Moorpark College, Royapak, System Development Corp., Rocketsyne

BISHOP, DAVID L. (1968) Life Science
B.S., Washington State University; M.A., University of California, Santa Barbara
Experience: Teaching Assistant; Instructor, Santa Barbara City College
GLOSSARY

ADMISSIONS & RECORDS - The office and staff that admits, accounts, and certifies each student's legal record in the college and is the source of the college's legal statistical data.

ADMINISTRATION - Officers who direct the activities of the college; also the building where they and their staff work.

A.S.B. CARD - Membership card of the Associated Student Body of Moorpark College which provides many services and privileges.

ASSOCIATE IN ARTS DEGREE - A degree awarded by a community college upon satisfactory completion in an organized program of 60 - 64 units.

AUDITING - Enrollment in a course for no credit and no grade. This is not permitted at Moorpark College.

BACHELOR'S DEGREE - A degree awarded by a four-year college or university, after satisfactory completion of 120 to 130 semester units or more in an organized program of studies.

CERTIFICATE - Awarded to those who complete a required sequence of courses in some occupation majors, requiring less than 60 units of college work.

COLLEGE CATALOG - A bulletin issued by a college outlining course offerings and descriptions, majors, admission requirements, regulations, etc. The legal document of the Institution.

COMMUNITY COLLEGE - A college which offers two years of college and awards the AA degree for 60 to 64 semester units of college work.

COUNSELING - Helping a student to develop self-understanding and educational and career plans.

CREDIT BY EXAM - Earning credit in a course by passing an exam, rather than by taking the course.

CREDIT NO CREDIT - Official certification of the completion of a course of study for credit but with no mark.

CURRICULUM - Formal school-related activities that provide opportunities for learning.

DISMISSEL - Academic dismissal from the college.

ELECTIVE (Course) - A course selected by the student that is not required by his program or required for general education.

EXTENDED DAY - Regular college classes offered after 4:30 p.m. and until 10:30 p.m.

FINANCIAL AID - Program designed to assist students in paying educational expenses.

GENERAL EDUCATION REQUIREMENTS - A specific group of courses required of all students in college for receipt of the Bachelor's Degree, designed to broaden the students' education.

GUIDANCE - Individualization and personalization of the educational process. It includes analysis, information orientation, counseling, placement and follow-up.

GRADE POINTS - A numerical value assigned to each unit of College letter grades. For example, A - 4, B - 3, C - 2, D - 1, F - 0. These points are used in computing your grade point average.

GRADE POINT AVERAGE - An average of the numbers derived after converting grades into grade points (A = 4, B = 3, C = 2, D = 1, F = 0) and determined by dividing total grade points by the number of units attempted.

INCOMPLETE GRADE - A grade of "I" received for not completing a required work in a certain course.

LABORATORY - A room or rooms appropriately equipped and used for scientific experimentation and research. A course may include a lecture session and a laboratory or seminar, requiring students to register for each.

LOWER DIVISION - Refers to students or courses at the freshman or sophomore level of college.

MAJOR - A group or series of courses designed to provide intensive education or training in a specialized area. Sometimes called a subject major.

OCCUPATIONAL COURSES - Courses designed specifically to train students for employment. Such courses do not transfer if they are numbered 50 or higher.

PETITION - A student request for reconsideration due to unusual circumstances, generally originates at the Dean of Students Office.

PLACEMENT OFFICE - College service primarily concerned with assisting students in college to find part-time work.

PLACEMENT TEST - Tests required prior to admission; used along with high school grade point average to assist students to select the most appropriate classes. (Not an entrance test.)

PROBATION - A trial period, usually one quarter or semester, in which the student must improve his academic achievements; if he is dismissed from college, or to meet graduation requirements. At the end of any semester, a student who has failed to achieve a 2.0 GPA is placed on probation.

PREREQUISITE - A requirement that must be met before enrolling in a particular course, usually presented to a test score, or prior course, a sophomore standing.

REGISTRATION - The process of being accepted and enrolled in classes.

SCHEDULE OF CLASSES - A booklet giving the name, time, teach, unit, and room of all classes held.

SEMESTER - One-half of the academic year. The fall semester begins in September; spring semester in February; each is generally 18 weeks in duration.

SEMESTER PLAN - A special form on which a student lists the courses for the following semesters.

SEMINAR - Small group for discussion or research.

STUDENT INFORMATION SHEET - Admissions Office form for basic information regarding student, including the residency statement.

STUDENT PERSONNEL SERVICES - Provided under direction of Dean of Students, includes Admissions & Records, Guidance and Counseling, Athletic Activities, Student Activities, Health Services, Financial Aid, and Job Placement.

TRANSCRIPT - An official list of all courses taken by a student at a college or university, showing the final grade received for each course.

TRANSFER COLLEGE - A college or university which offers four or more years of college. It may award the Bachelor's, Master's, and Doctor's Degree in four years of college. It may award the Bachelor's, Master's, and Doctor's Degrees in more than four years of college. It may award the Bachelor's, Master's, and Doctor's Degrees in less than four years of college. It may award the Bachelor's, Master's, and Doctor's Degrees in less than four years of college.

TRANSFER COURSES - Courses designed to match lower division courses being offered at four-year institutions and for which credit may be transferred.

TRANSFER MAJOR - A major for students planning to transfer to a four-year college, where the major will be completed.

UNIT - Semester Unit; generally one lecture or discussion hour per week for 16 weeks. Also a number which indicates the amount of college credit given to a course, (60 to 64 units are required for the AA degree).

UPPER DIVISION - Refers to students or courses at the Junior and Senior level of four-year colleges and universities.

WORK STUDY - A combined federal/local financial aid program for qualified students who work on campus assisting the staff for fifteen hours each week.