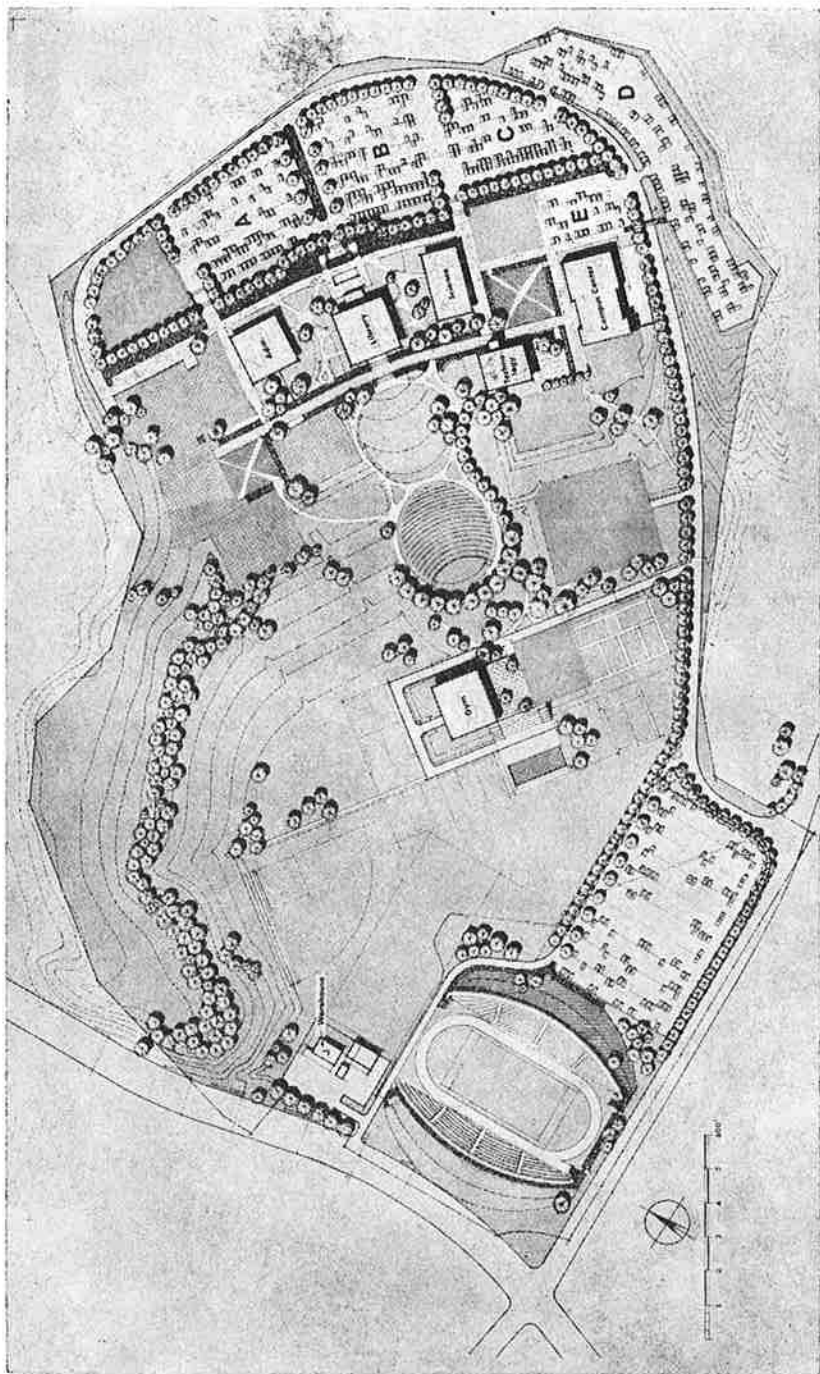


**CONSTRUCTION BEGINS**

**7075 CAMPUS ROAD  
MOORPARK, CALIFORNIA**



MAP OF MOORPARK COLLEGE



(Left to Right: Architect Dunsmore, President Collins, Chairman McConnell, Trustee Romney, Trustee Simpson, Trustee Addison, Superintendent Sheffield. Trustee Moeller not present for picture.

**Governing Board**  
**VENTURA COUNTY JUNIOR COLLEGE DISTRICT**

Mr. Philip C. McConnell  
President

Mr. Robert Addison  
Mr. Roger D. Moeller

Mrs. Janette H. Romney  
Dr. William M. Simpson

Superintendent: Dr. H. J. Sheffield

Moorpark College President: Dr. John J. Collins

# ACADEMIC CALENDAR

## FALL SEMESTER

Sept 11, 1967 - January 26, 1968

July 6 and August 3, 10, 17, 24	Placement tests in Administration Building at one of the following times: 8:00 a.m., 10:30 a.m., 7:00 p.m.
August 16	Counseling and Registration for Fall Semester begins
September 8, 9	Validation Days
September 11	Instruction begins, Fall Semester
October 20	Last day to drop classes without prejudice
October 30 - November 3	Mid-Term Week
November 20	Counseling and Registration for Spring Semester begins
November 23 - 24	Holiday, Thanksgiving Day Recess
December 18 - January 1	Holiday, Christmas and New Year's Day Recess
January 2	Classes Resume
January 17 - 26	Final Examinations
January 26	End of Fall Semester

## SPRING SEMESTER

February 1, 1968 - June 13, 1968

February 1	Instruction begins, Spring Semester
February 12	Holiday, Lincoln's Birthday
February 22	Holiday, Washington's Birthday
March 15	Last day to drop classes without prejudice
March 25-29	Mid-Term Week
April 8 - 12	Spring Vacation
April 15	Classes Resume
April 19	Last day to file intent for graduation
May 6	Counseling and Pre-Registration of enrolled students for Summer and Fall Sessions
May 30	Holiday, Memorial Day
June 5 - 13	Final Examinations
June 13	End of Spring Semester
June 14	Commencement Exercises

## SUMMER SESSION

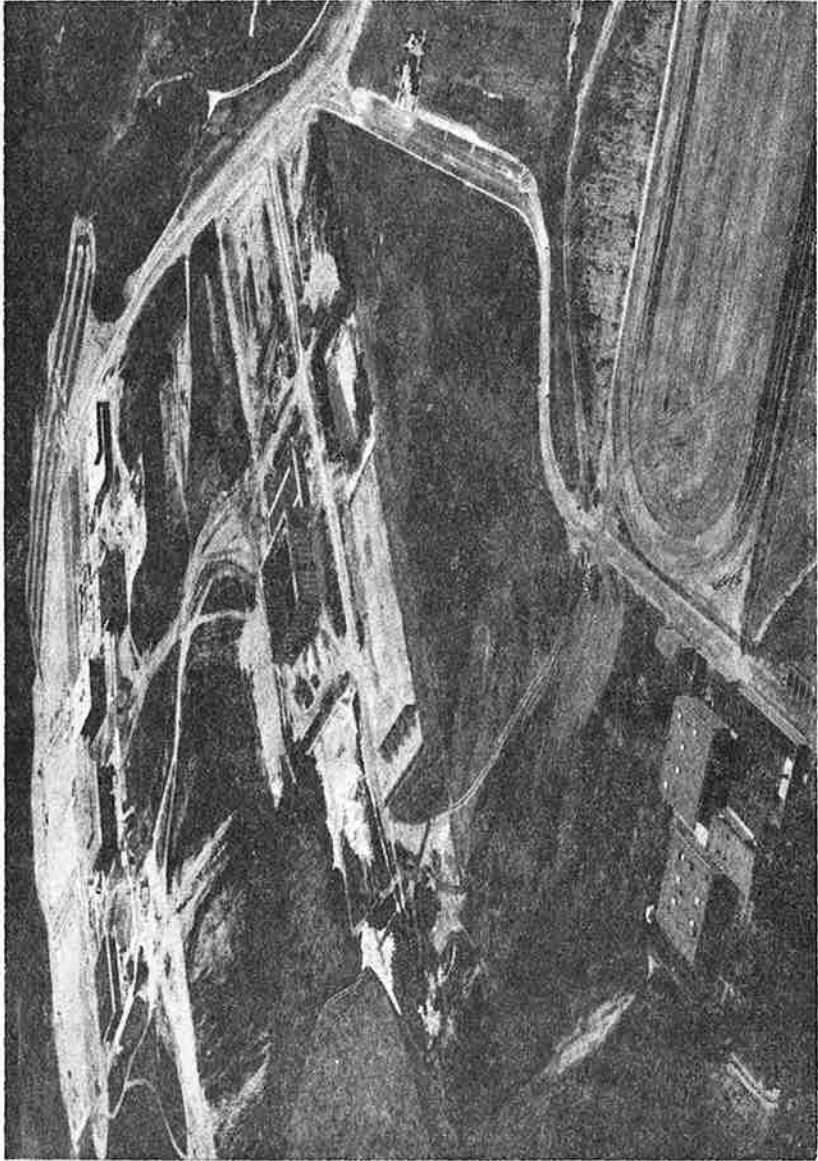
June 17, 1968 - July 26, 1968

June 17	Instruction Begins, Summer Session
July 4	Holiday, Independence Day
July 26	End of Summer Session

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AERIAL VIEW OF CAMPUS

## ***General Information***

# GENERAL INFORMATION

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# THE COLLEGE

## HISTORY

On July 1, 1962, the Ventura County Junior College District became a legal entity charged with the operation of a program of public junior 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 High School District, and later as a separate institution. Moorpark College was established by Board action on March 19, 1963, to serve primarily the rapidly growing communities of eastern Ventura County.

The 134-acre hillside site for Moorpark College, located between Simi and Moorpark in eastern Ventura County, was selected early in 1963, and later that year the Moorpark College Advisory Committee was appointed by the Board and charged with making recommendations regarding finance, architecture, curriculum, and services. 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 to be completed by September, 1967, to accommodate 2000 students. Eventual completion of the second phase will bring the plant capacity to 5000 day students.

On July 1, 1966, the Board of Trustees appointed 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.

The Moorpark College Vocational-Technical Advisory Committee was appointed in August, 1966, and made its report to the Board in November of that year. An extensive community survey was conducted in March and April, 1967, to help determine community needs to be met through both day and evening programs.

The College accepted students for instruction on September 11, 1967.

## PHILOSOPHY

The Ventura County Junior 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 designed 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 richer and 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 the natural environment, about himself, about society, and about his heritage.

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

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

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

## 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.

#### 3. Technical-Vocational Education

Preparation for employment is an important and legitimate function of higher education. Moorpark College recognizes the changing nature of our industrial society and, therefore, is committed to specific preparation, as well as to a broad-gauge vocational-technical training that prepares for tomorrow as well as today. Vocational-technical programs are designed to provide entry-level 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. These students are, therefore, offered a well-programmed chance to improve, including developmental reading, vocabulary building, oral communication, basic mathematics, and logic.

## **5. Continuing Education**

Moorpark College offers a wide variety of programs and courses to meet the needs of adults who wish to continue their education. There is opportunity during the evening hours to improve competencies, engage in general education, or prepare for a particular vocation or profession.

## **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-government, cultural enrichment, intellectual stimulation, and to 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. COUNSELING SERVICES**

To help implement the philosophy of the "open door," counseling 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, counselors, faculty members, community resources, and necessary specialists in the very important task of helping students develop personal, educational, and vocational goals and values.

## **D. COMMUNITY SERVICES**

Moorpark College serves its community, not only by offering formal educational programs, but also by presenting cultural and educational activities of an informal nature. The college has a responsibility to the community to make available facilities, staff, and financial resources that will encourage the presentation of stimulating programs in the fields of ideas, art, music, dance, drama, and recreation. These programs are designed to enrich the community and are open to the public as well as to the college student body.

## **ACCREDITATION**

The courses and curricula of Moorpark College have been approved by the State Department of Education and by the Veterans Administration. Public and private colleges and universities, including the University of California and the California State College system, recognize credit earned in parallel courses at face value. An application for accreditation by the Western Association of Schools and Colleges has been initiated according to the procedures applicable to new public junior colleges.

## **EVENING CLASSES**

Courses are offered by Moorpark College during the late afternoon and evening hours. These are regular college courses and carry the same requirements and credits as the day classes. It is possible for a student to meet all requirements for graduation through evening class attendance. Continuing education curricula, including certificate, technical vocational, and professional programs, are offered by the college to meet the needs of interested citizens in the community.

## **SUMMER SESSION**

Moorpark College will conduct a summer session for the six-week period immediately following the close of the spring semester. This session will begin on June 17 and end on July 26, 1968. Courses will be offered to meet the needs of interested students. Registration for summer session will begin May 6, 1968.

# ADMISSIONS AND RECORDS

## ELIGIBILITY

**General** — High school graduates or persons 18 years of age or older, capable of profiting from the educational programs offered, may attend.

**Special** — Students who live outside Ventura County, those who do not qualify as residents of California, or those who have been disqualified from other institutions, must schedule an appointment with the Dean of Students prior to being admitted.

**Out-of-County** — California residents whose legal address is outside of Ventura County will be required to furnish a written permit from the Dean of Students of the junior college district where they legally reside before completing registration.

**Out-of-State** — Out-of-state residents and foreign students are charged a tuition fee fixed each year by the California State Legislature. Those on active duty in the United States Armed Forces, and their dependents, are exempt from tuition fees. Students carrying six units or less are not required to pay tuition fees under the present policy.

## PROCEDURE

1. **Application for Admission** — Applications may be obtained in the Records Office, by writing directly to the Dean of Students, or by calling 529-2321. These forms should be filed with the Dean of Students before August for entrance in the fall semester and before January 15 for entrance in the spring semester.
2. **Transcripts** — Request the high school last attended to forward an official transcript of all work completed to the Dean of Students, Moorpark College. Students who have previously attended college must request that all colleges attended forward official transcripts to the Dean of Students, Moorpark College.
3. **Placement Tests** — To assist students in selecting programs and courses that are appropriate, Moorpark College administers two placement tests. One is a general college aptitude test measuring verbal and mathematical skills; the other is an English classification test. Test scores do not determine whether or not a student may enroll in Moorpark College. However, test scores will, in some instances, determine whether or not a student may enroll in specific courses or programs.

All day students entering college for the first time, and students transferring from other colleges who have not successfully completed 15 units of college work must take the placement tests.

Evening students who plan to enroll in courses requiring test scores should take placement tests. The college schedule of evening classes will indicate courses which require testing.

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.

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, skill, 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 15½ to 17½ units. The average student will complete the requirements for the Associate in Arts degree within four semesters. First-semester college 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 semester's work may take up to 19½ units. Those students who wish to enroll in more than 19½ units are asked to confer with the Dean of Students.

5. **Completing Registration** — Immediately following the counseling conference, students will register in classes and file their registration packets. At this time students will be asked to complete a Health Inventory Form, purchase a student body card, and provide the college with their Social Security number.
6. **Validation** — On Friday and Saturday, Sept. 8 and 9, day students who have completed the registration process will validate their registration by securing their schedule of classes, student body identification card, and parking permit.

## OUT-OF-DISTRICT PERMITS

Students desiring to obtain an Out-of-District Permit to attend a junior college not in Ventura County must obtain an application form in the Dean of Students' office. After completing the application and having an interview with the Dean of Students, the student must in person file his application with the Ventura County Junior College District Office at 71 Day Road, Ventura. If the permit is granted, it will be issued at the district office.

## PERMITS TO ENTER

**Restricted admission of students to Ventura County Junior College District from other state junior college districts.** According to the Inter-district Attendance Agreements executed, and Notices of Restriction in effect as of April 1, 1967, and thereby effective for the fiscal year 1967-68, students with legal residence in the junior college districts listed below must present permits for attendance before completing registration for classes in the Ventura County Junior College District:

Cabrillo Junior College District  
Cerritos Junior College District  
Coachella Valley Junior College District  
Coalinga Junior College District  
Compton Junior College District  
Fremont-Newark Junior College District  
Gavilan Joint Junior College District  
Glendale Unified School District  
Hartnell Joint Junior College District  
Imperial Junior College District  
Marin Junior College District  
Merced Junior College District  
Monterey Peninsula Junior College District  
Mt. San Jacinto Junior College District  
Napa Junior College District  
North Orange County Junior College District  
Palomar Junior College District  
Porterville Union High School District  
Riverside Junior College District  
San Bernardino Valley Joint Junior College District  
San Diego Unified School District  
San Francisco Unified School District  
San Joaquin Delta Junior College District  
San Jose Junior College District  
San Luis Obispo County Junior College District  
Santa Ana Junior College District  
Santa Barbara Junior College District  
Sonoma County Junior College District  
Shasta Joint Junior College District  
Siskiyou Joint Junior College District  
Solano County Junior College District  
West Kern Junior College District  
West Valley Joint Junior College District  
Yosemite Junior College District

## TRANSFER PERMITS

**Restricted transfer of Ventura County Junior College District Students.** According to the Interdistrict Attendance Agreements executed, and Notices of Restriction in effect as of April 1, 1967, and thereby effective for the fiscal year 1967-68, students with legal residence in the Ventura County Junior College District must apply for permits to attend any of the following junior college districts in the State of California:

Cabrillo Junior College District  
Cerritos Junior College District  
Coachella Valley Junior College District  
Coalinga Junior College District  
Compton Junior College District  
Fremont-Newark Junior College District  
Gavilan Joint Junior College District  
Glendale Unified School District  
Hartnell Joint Junior College District  
Imperial Junior College District  
Long Beach Unified School District  
Los Angeles City Junior College District  
    Los Angeles City College,  
    Los Angeles Harbor College,  
    Los Angeles Pierce College,  
    Los Angeles Trade-Tech College,  
    Los Angeles Valley College,  
    East Los Angeles College  
Marin Junior College District  
Merced Junior College District  
Monterey Peninsula Junior College District  
Mt. San Jacinto Junior College District  
Napa Junior College District  
North Orange County Junior College District  
Palomar Junior College District  
Porterville Union High School District  
Riverside Junior College District  
San Bernardino Valley Joint Junior College District  
San Diego Unified School District  
San Francisco Unified School District  
San Joaquin Delta Junior College District  
San Jose Junior College District  
San Luis Obispo County Junior College District  
Santa Ana Junior College District  
Santa Barbara Junior College District  
Sonoma County Junior College District  
Shasta Joint Junior College District  
Siskiyou Joint Junior College District  
Solano County Junior College District  
West Kern Junior College District  
West Valley Joint Junior College District



## EVALUATION OF TRANSFER CREDIT

Students transferring to Moorpark College from other colleges or universities are required to declare all previous college work. 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.

## FOREIGN STUDENTS

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

1. Submit a completed application for admission.
2. Complete an English facility examination administered by the University of Michigan English Language Institute indicating a sufficient facility for the English language.
3. State a specific degree objective.
4. Submit a letter of recommendation and transcripts from preparatory schools and colleges previously attended.
5. Submit a confidential statement of finances.
6. Complete the Certificate of Eligibility, Form I-20A.
7. Submit a health certificate, which may be a copy of the health certificate for visa purposes.
8. Complete admission tests for placement purposes.

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

## EXPENSES

There is no tuition fee for students who qualify as legal residents of California. The non-resident tuition fee for the academic year 1967-68 is \$330 or \$165 per semester. For students taking less than 15 units the rate is \$11 per unit. Students who carry 6 units or less are not required to pay a tuition fee. Tuition fees must be paid prior to admission to classes.

Membership in the Associated Student Body is \$6 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 accident insurance coverage.

Text books and supplies are available for purchase in the college bookstore located in the Campus Center. These items will cost approximately \$35 to \$60 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.

## **ATTENDANCE**

All students admitted to Moorpark College are expected to attend classes regularly. The faculty places strong emphasis on consistent attendance.

If attendance is irregular and absences excessive, the instructor may, after due warning, recommend that a student be dropped from the class and a failing grade be recorded for the course. Students should confer with each instructor when absence is due to illness.

Students who are to be absent from college for more than three days as a result of illness or accident, must notify the Records Office. Instructors will then be notified.

## **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 Students.

A student may add a class to his schedule during the first week of the semester with the approval of his counselor. Commencing with the second week of the semester, approval must be obtained from both counselor and instructor.

The deadline for late registration in evening classes is two weeks after the semester begins. Exceptions will require the approval of the counselor and the Assistant Dean of Instruction.

## **REPEATING A COURSE**

If a student has already completed a course with a grade of "D" or "F" and wishes to repeat the course, he will be permitted to do so. A student must confer with the Dean of Students before repeating a course in which

he has received a "C" grade or better or when wishing to repeat a course the second time. Units will be recorded in the grade-point count each time a course is attempted.

## AUDITING

In general, auditors are not permitted in Moorpark College classes. Exceptions must be given approval by the Dean of Students and the Dean of Instruction.

## INCOMPLETE

A grade of Incomplete, "Inc", indicates failure to complete the required work of the course because of extenuating circumstances. An "incomplete" must be removed during the semester following that in which it was received. All "incompletes" not removed by the end of the following semester automatically become "F" grades.

## DROPPING A COURSE

1. A student planning to drop a course during the first six weeks of each semester may do so without prejudice after conferring with his counselor and the appropriate instructor.
2. After the first six weeks a student may drop a course with a "W" if passing or an "F" if failing. Written approval must be secured from the counselor and the instructor.
3. Students will not be permitted to drop courses during the last two weeks of a semester.

## 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. Procedure for withdrawal is as follows:

1. Secure an Application for Withdrawal from the Records Office.
2. Confer with appropriate counselor.
3. Present the completed Application to the Records Office after appropriate signatures have been obtained.

Grades will be recorded according to the rules governing the dropping of courses.

Students will not be permitted to withdraw from college during the last two weeks of a semester.

# **STUDENT SERVICES AND PROCEDURES**

## **COUNSELING**

Counseling services are provided for every student to assist him in choosing courses and planning his future from the point of view of his immediate needs, aspirations, and purposes. These services are available at the time of registration and during enrollment in the college. The counselor helps each student work out a program of courses consistent with his previous educational experience, interests, and aptitudes. The Counseling Center is located in the Administration Building. Students at Moorpark College should be aware that instructors as well as counselors are available and willing to assist them in vocational and educational planning.

## **HEALTH SERVICES**

The Health Center is located in the Administration Building A115. A public health nurse is on duty daily to confer with students regarding health problems.

Students who are injured on campus or become ill should report the incident to the Health Center. Injured students covered by student insurance must complete a claim form at the Center, or in case of athletic injuries, with the Director of Athletics.

## **TRANSPORTATION**

Students are expected to furnish or make their own arrangements for transportation to and from Moorpark College. The college provides no bus service and makes no in lieu of transportation payments. Car pool information can be obtained through the office of Director of Student Activities.

## **HOUSING**

As a service to students seeking off-campus housing accommodations, the Housing Office, located in the Counseling Center, keeps an up-to-date file of rooms and apartments listed with the college by various householders and landlords. These listings describe in detail the facilities being offered, but do not imply that the College has approved the accommodations. Selection of housing, financial arrangements, and rules and regulations governing behavior are the responsibilities of the student and the landlord.

## **FINANCIAL ASSISTANCE**

The student financial aid program is administered by the Dean of Students. This assistance includes scholarships, loans, and opportunity for part-time employment.

Local citizens and organizations offer a number of scholarship awards for Moorpark College students. Consideration is given to students who

establish good academic records and who have need for financial assistance. Deadline for scholarship applications is March 1, 1968.

## EMPLOYMENT SERVICES

Students seeking part-time or permanent employment should apply at the Placement Office located in the Counseling Center, A123. 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 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.

## OCCUPATIONAL INFORMATION CENTER

The Occupational Information Center which is adjacent to the Placement Office in the Administration Building provides specific information concerning wage rates, working conditions, and job qualifications for a wide variety of occupations and professions. Sound vocational planning is in large measure based on a knowledge of job requirements as well as other general employment trends. Many publications on vocations, employment opportunity announcements, and audio-visual media are available in the Center.

## STUDENT ACTIVITIES AND ORGANIZATIONS

The Associated Student Body of Moorpark College is the student governing organization. This organization carries the major responsibilities for student government, campus organizations and the student activity program in general. The broad aims of this program are in close harmony with the objectives of the college in providing opportunities for personal development, group cooperation, the development of leadership, and the enrichment of college life.

Moorpark College has a planned program of cultural, professional, and recreational activities. All students are encouraged to participate in one or more activity, such as student government, dramatics, music, forensics, athletics, publications, and the club program. It is felt that students availing themselves of these opportunities receive a more complete and rewarding college experience.

## SELECTIVE SERVICE

Information concerning Selective Service is made available through the counseling staff. Selective Service forms for student deferment may be obtained in the Records Office. Students having special problems in this regard should confer with the Dean of Students.

# ACADEMIC POLICIES

## SCHOLARSHIP

A student's academic work is considered satisfactory when he maintains an average of "C" or higher. The quality of a student's work is indicated by a grade-point average which is derived from the semester units and grades received. This computation is based upon the following grade points for each semester unit of course work undertaken: A = 4, B = 3, C = 2, D = 1, F = 0, Inc = 0.

Grades of students will be indicated twice during the semester. Mid-term grades will be distributed to the students at the Records Office shortly after mid-semester. Final grades will be mailed to the student at the conclusion of each semester.

## DEANS' LIST

Special recognition is accorded students who complete a program of study with a 3.50 grade-point average or higher during a semester in which they are enrolled in 12 units. Students whose academic achievement is at this level are placed on the Dean's List and given appropriate recognition on campus and in the community.

## EXAMINATIONS

Final examinations are required at the conclusion of each semester according to a published examination schedule. If circumstances are such that the student finds it impossible to meet the final examination schedule, he must confer with the Dean of Students regarding an adjustment or a deferment.

## ADMISSION - PROBATION - DISMISSAL

### A. Introduction

Admission-probation-dismissal principles and policies are designed to assist students to make progress toward realistic educational, vocational, and personal goals. Each individual 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 of 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 Junior College District college from another college is subject to the same probation-dismissal policies as Ventura County Junior 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, aptitudes, and achievement.**
2. A student shall 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 newly entering student who is not a high school graduate shall be placed on probation.
4. 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 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 who, after two semesters of attendance, is deficient 20 grade-points or more, shall be subject to dismissal.
4. 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.

## **LIBRARY**

The central point of the Moorpark College campus is the library. At present, only the first floor of the building is devoted to library functions. It contains not only books, periodicals, pamphlets, government documents, and audio-visual materials in direct support of instructional programs, but also recreational reading and listening materials. In addition to the main reading room and book stacks, there are other facilities on the first floor; for example, a student typing room, conference rooms for small groups, and a browsing area with new books, popular periodicals, newspapers, and art displays. Individual study spaces are emphasized in the library.

The audio-visual center has a film preview room, listening stations, micro-film readers, and also facilities for educational television programs. Conduits have been provided to link all instructional areas on the campus. The library has approximately 280 seating spaces and will eventually contain about 100,000 volumes. At present, the second floor of the building is used for classrooms and instructors' offices. Students are invited to visit the library frequently, and to take advantage of its many materials and services.



## GRADUATION REQUIREMENTS

As authorized by the Education Code and Title 5 of the Administrative Code of the State of California, the Ventura County Junior College District Board of Trustees confers the Associate in 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 residence at the institution recommending the degree, 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<br>(Including at least four (4) semester units in American History and Institutions; and Freshman Orientation.)           | 6 - 9 |
| 2. English/Speech<br>3 to 6 units as required in transfer majors.<br>Must include at least three (3) semester units in English composition. | 6     |
| 3. Natural Science/Mathematics  | 3 - 5 |
| 4. Fine Arts  | 2 - 4 |
| 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, nursing, 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

Students may complete their full 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 who were 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 junior college grade-point average is 2.0 or better.

Students who are ineligible for the State college on the basis of their high school record may be admitted to the State college upon the completion of 60 units of junior college work and by obtaining a 2.0 grade-point average.

Students may transfer a maximum of 70 junior college units to State colleges.

**To the University of California:** Students who are eligible for admission from high school may be admitted to the University at any time as long as their junior college grade-point average is 2.0 or better. Students who are ineligible for admission from high school because of subject deficiencies may establish eligibility by completing the required courses as long as a 2.0 grade-point average is maintained. Students who are 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 2.4 or better.

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

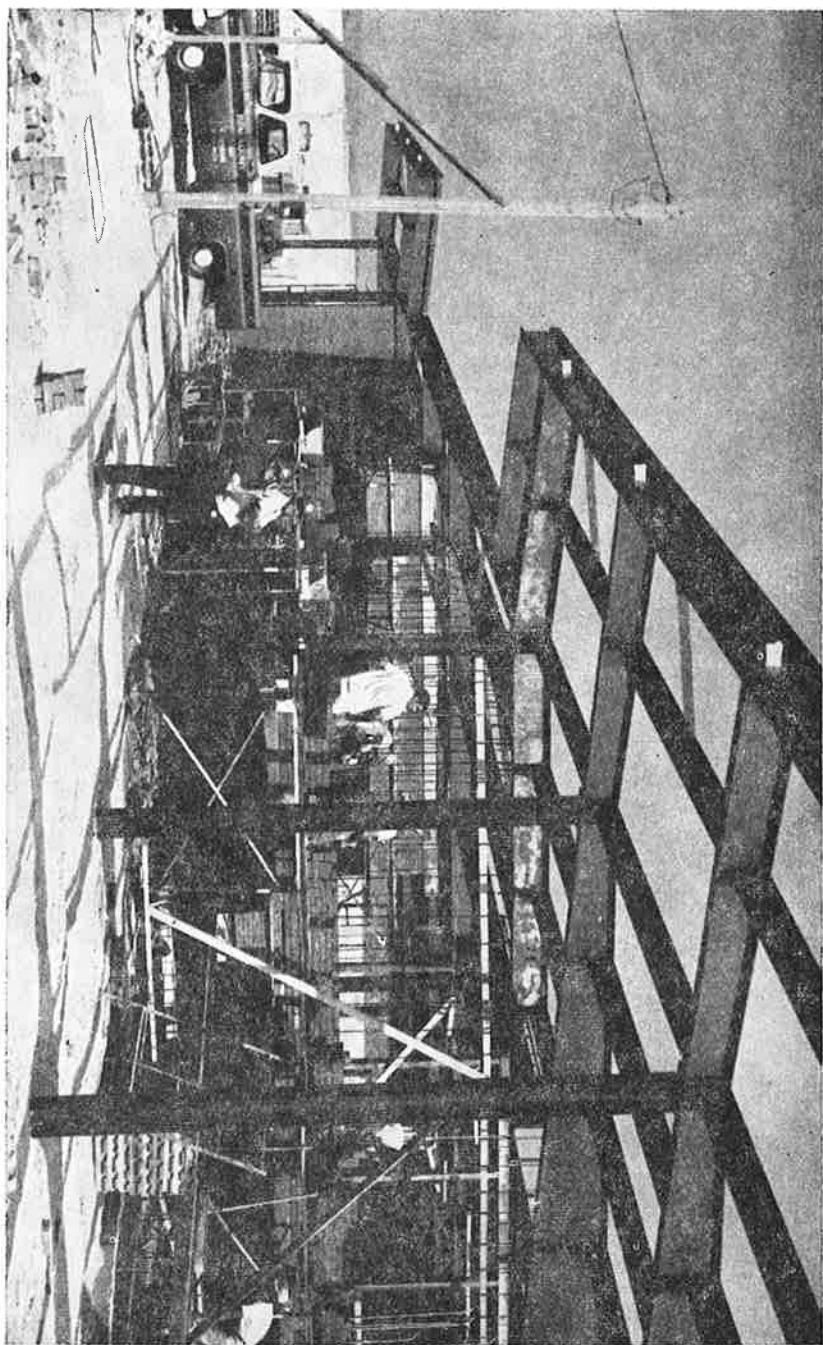
## VETERANS

The office of the Dean of Students maintains liaison with the Veterans Administration and the State Department of Veterans Affairs.

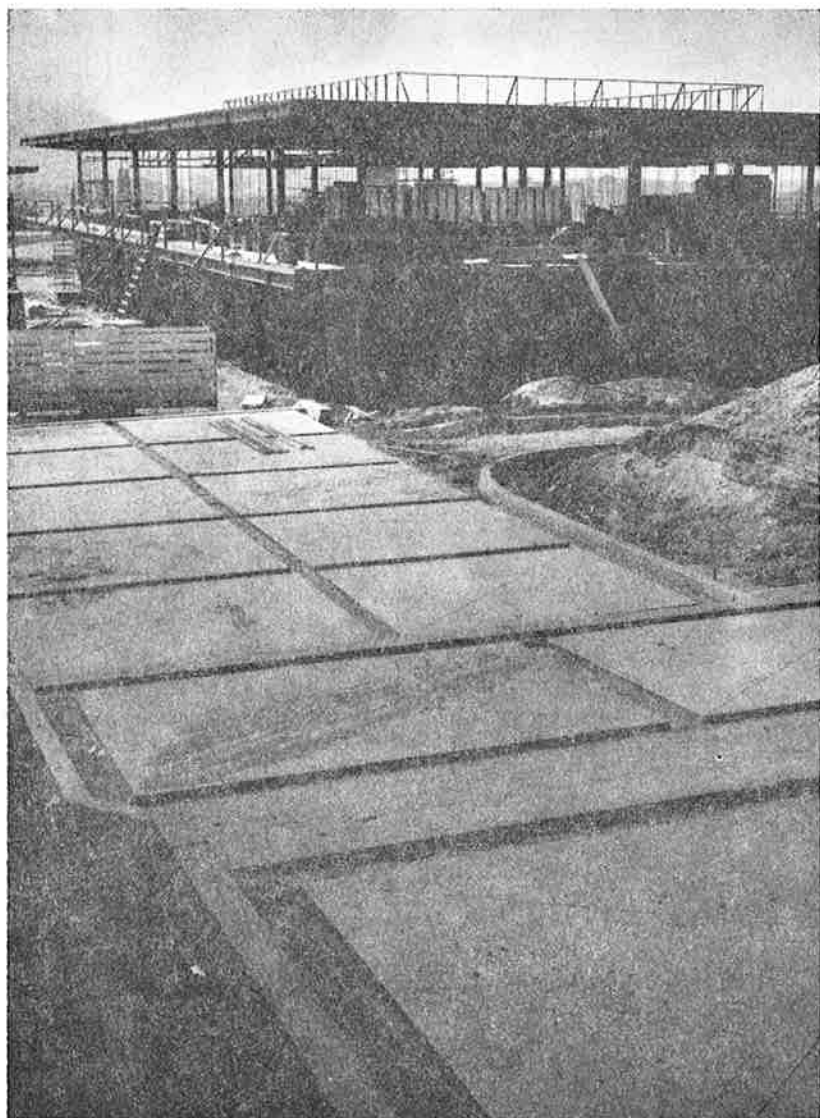
Students planning to enroll and obtain benefits under Public Law 89-358 should obtain a Certificate for a Program of Education (VA Form VB 22-5493) from the Veterans Administration and present it at the time of registration. Veterans should notify the Veterans Administration of their intentions to enter Moorpark College well in advance of the registration period.

Moorpark College does not grant credit for military training but will evaluate transcripts of extension and USAFI courses completed while in the military service.

The college is approved for training of veterans under all applicable laws.



CAMPUS CENTER



SCIENCE BUILDING

## *Programs of Study*

# TRANSFER PROGRAMS

## Representative Curricula

Four-year institutions vary in freshman and sophomore requirements, even on the various campuses of a single system such as the University of California. Students are therefore advised to become familiar with specific requirements of the institution to which they expect to transfer by study of the appropriate catalogs, available in the Counseling Center and in the Library.

While transfer students from Moorpark College attend many institutions of higher education, both private and public, the majority attend campuses of the University or of the State College system.

Each campus of the University of California and the State Colleges have unique graduation requirements for each major. Included for review are specific general education requirements for nearby campuses:

University of California at Los Angeles (UCLA)  
University of California at Santa Barbara (UCSB)  
San Fernando Valley State College (SFVSC)  
California State College at Los Angeles (CSCLA)  
California State Polytechnic College (CAL POLY)  
San Luis Obispo campus

General education requirements are noted in terms of the courses and units (quarter or semester) of the respective institution.

## GENERAL EDUCATION REQUIREMENTS

### UNIVERSITY OF CALIFORNIA AT LOS ANGELES

(UCLA)

College of Letters and Science

(Quarter Units)

English

One quarter course\* in English composition with a grade of C or better. Requirement may also be satisfied by passing a proficiency examination set and administered by the Department of English.

\* A "course" at Los Angeles is equivalent to 4 quarter units. requirements for specific majors.

## Foreign Language

Five quarter courses in 1 or 2 languages or the equivalent. A minimum of two courses is required in any language offered in satisfaction of this requirement. Students wishing to offer courses taken in high school in fulfillment of this requirement must take a placement test in each of the languages in question. Credit will not be given for work taken in the University equivalent to that for which credit was given in high school. The first two University courses in a foreign language will be considered equivalent to two years in high school, the first three equivalent to three years, and the first four equivalent to four years.

## Mathematics

The high school mathematics required for admission to the University of California.

## Humanities

(Students majoring in the Humanities are exempt from this requirement.) Students majoring in the Social Sciences will take 2 courses either in literature or philosophy and students majoring in the Physical Sciences or in the Life Sciences will take 3 courses.

### 1—Philosophy

- a. Students in the Social Sciences may take either Philosophy 6-7 or Philosophy 20-21.
- b. Students in the Physical Sciences or Life Sciences may take either Philosophy 21 plus a third course which is offered by the Department of Philosophy and for which a student is eligible.

### 2—Literature

Students in the Social Sciences may take 2 courses and students in the Physical Sciences and Life Sciences may take 3 courses from the following: English 1A, 10B, 10C, 100, 101, 102, 103, 105, 107, 108, 109.

Humanities 1A, 1B, 1C

Any of the courses in foreign literature in translation.

## Natural Sciences

### 1—Life Sciences

(Students majoring in the Life Sciences are exempt from this requirement.) Students majoring in the Physical Sciences will take 2 courses and those majoring in the Humanities

and Social Sciences will take 3 courses.

- a. Students in the Physical Sciences normally will take Biology 2A-2B (or 181A-181B).
- b. Students in the Humanities and Social Sciences normally will take Biology 2A-2B and one of the following:

Anthropology 1A, 11

Bacteriology 6

Biology 21

Botany 10

Geography 5

Geology 11

Psychology 12, 115

Zoology

- c. This requirement may also be satisfied by Biology 1A-1B-1C or, for transfer students, by any 3 quarter courses (or 2 semester courses) in bacteriology, biology, botany, or zoology, totaling 12 quarter units or 8 semester units.

## 2—Physical Sciences

(Students majoring in the Physical Sciences are exempt from this requirement.) Students majoring in the Life Sciences will take 2 courses and those majoring in the Humanities and Social Sciences will take three courses.

- a. Students normally will take 2 or 3 courses in the following sequence:  
Physical Sciences 1-2  
One of the following: Physical Sciences 3A, 3G, 3M.
- b. This requirement also may be satisfied by one course in physics and one course in chemistry. If a third course is required, it may be chosen from astronomy, geology, mathematics, or meteorology.

## Social Sciences

(Students majoring in the Social Sciences are exempt from this requirement.) Students majoring in the Humanities will take two courses in one Social Science department, and those majoring in the Physical Sciences or the Life Sciences will take 2 courses in one Social Science department and 1 course in another Social Science department. (A course used to satisfy the requirement in American History



and institutions cannot be applied to this requirement.) Students will select the courses to meet this requirement from the following:

Anthropology 2A, 2B, 12

Economics 1A, 1B, 13, 101

Geography 1B, 120

History 1A, 1B, 1C, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 9C, 9D

Political Science 1, 2

Psychology 10

Sociology 1A, 1B, 101

### Additional Requirements

#### Limited Electives

Every student will take 2 courses (any courses for which he has the prerequisites) in art, history, literature, music, or philosophy. (A course used to satisfy the requirement in American History and Institutions cannot be applied to this requirement.)

## UNIVERSITY OF CALIFORNIA AT SANTA BARBARA

(UCSB)

### (Quarter Units)

English

At least 8 quarter units of reading and composition.

Foreign Language

Completion of the fifth-quarter course, or the equivalent in a foreign language.

Mathematics

See "Natural Sciences" below.

Humanities

At least 15 quarter units including one or more courses in each area:

1. Literature, English or foreign
2. Philosophy (any course)
3. Fine Arts, History and Appreciation (Art, Dance, Music, Drama)

## Natural Sciences

At least 11 quarter units, including one laboratory course and one or more courses from each of the following:

1. Biology or botany
2. Chemistry, geology or physics
3. Anthropology (physical), astronomy, biology, botany, chemistry, geography, (physical), geology, mathematics, physics, zoology.

## Social Sciences

At least 15 quarter units from the following:

1. History, any course
2. Three courses in separate areas from: anthropology (except physical), economics (except accounting or statistics), geography (except physical), political science, psychology, sociology.

## Additional Requirements

1. Three quarter courses in physical activities taken during the first two years for a total of 1½ quarter units.
2. Free Electives: At least 10½ quarter units consisting of four courses outside the major, including speech and religious studies, or three courses outside the major and 1½ additional units of physical activities.

# SAN FERNANDO VALLEY STATE COLLEGE

## (Semester Units)

Section A. **The Social Sciences:** 12 units (Choose one from each of the following sub-sections)

1. One of the following: 3 units  
Hist. 270. U.S. to 1865 (3)  
Hist. 271 U.S. since 1865 (3)
2. Pol. Sci. 155. American Political Institutions (3)
3. Two courses from any two of the following categories .... 6 units
  - a. Anthro. 150. Comparative Cultures (3)  
Anthro. 204. Cultural Anthropology (3)
  - b. Econ. 150. Principles of Economics I (3)  
Econ. 160 Principles of Economics II (3)

- c. Geog. 105. Economic Geography (3)  
Geog. 150. Cultural Geography (3)
- d. Soc. 150. Man and Society (3)  
Soc. 200. Social Problems (3)
- e. Hist. 150. Man in Western Civilization (3)  
Hist. 151. Man in Western Civilization (3)  
Pol. Sci. 156. Comparative Government (3)

**Section B. The Natural Sciences:** 9 units (Choose from each of the following sub-sections)

- 1. Physical Sciences (3 units required)
  - Phy. Sci. 150. Principles of Physical Science I (3)
  - Physics 100A. General Physics (4)
  - Physics 220A. Mechanics (4)
  - Chem. 101. General Chemistry (lab. required) (5)
  - Chem. 103. Introductory Chemistry I (3)
- 2. Biological Sciences (3 units required)
  - Biol. 150. Principles of Biology I (3)
- 3. Science Electives (3 units required)
  - Biol. 151. Principles of Biology II (3)
  - Phys. Sci. 151. Principles of Physical Science II (3)
  - Geog. 101. Physical Geography (3)
  - Geog. 103. Weather (3)
  - Geol. 101. Physical Geology (3)
  - Physics 100B. General Physics (4)
  - Physics 220B. Electricity and Magnetism (4)
  - Chem. 102. General Chemistry (5)
  - Chem. 104. Introductory Chemistry II (5)

**Section C. The Humanities:** 9 units (Choose one from each of the following subsections)

- 1. Art or Music: 3 units. One of the following:
  - Art 105. The Visual Arts (3) \*
  - Art 111A. History of Art (3)
  - Art 111B. History of Art (3)
  - Art 305. Art in Modern Life (3) \*
  - Music 105. Understanding Music (3)
  - Music 201A. The History and Literature of Music (3)
  - Music 201B. The History and Literature of Music (3)
  - Drama 150. Appreciation of the Theater (3)

2. English 255. Introduction to Literature (3)
3. Philosophy — one of the following: 3 units
  - Phil. 150. Main Ideas and Issues in Philosophy (3) \*
  - Phil. 201. History of Philosophy I (3)
  - Phil. 202. History of Philosophy II (3)
  - Phil. 310. Types and Problems (3) \*

Section D. **Rhetoric:** 6 units (Choose one from each of the following sub-sections)

1. English 155. Written Expression (3)
2. Speech 155. Public Speaking I (3)  
Speech 225. Argumentation (3)

Section E. **General Psychology:** 3 units

1. Psy. 150. Principles of Human Behavior (3)

Section F. **Health and Physical Education:** 4 units

1. Health 120. Introduction to the Science of Health (2)
2. Four courses in physical education activities, not more than two from either "a" or "b" — 2 units \*\*
  - a. Aquatics (Physical Education 150, 151, 152)
  - b. Dance and Rhythms (Physical Education 110-119)
  - c. Team Sports (Physical Education 120-219)
  - d. Individual and Dual Sports (Physical Education 130-149)

\* Credit cannot be received for one or both Art 105 and 305; for Phil. 150 and 310.

\*\* Students who are admitted to the college at age twenty-five or older are exempted from the subject requirement of physical education activities. Such students shall complete the general education courses in the pattern under which they enroll. Physical education activities may be elected by such students as part of the general education program to a maximum of two units.

Section G. **Selected Electives** — one of the following: + ..... 3 units

- French 102. Elementary French II (4)
- French 201. Intermediate French I (4)
- French 202. Intermediate French II (4)
- German 102. Elementary German II (4)
- German 201. Intermediate German I (4)

German 202. Intermediate German II (4)  
 Greek 102. Elementary Greek II (4)  
 Latin 102. Elementary Latin II (4)  
 Latin 201. Intermediate Latin I (4)  
 Latin 202. Intermediate Latin I (4)  
 Mathematics 102. College Algebra (3)  
 Mathematics 105. College Algebra and Trigonometry (5)  
 Mathematics 131. Fundamentals of Mathematics (3)  
 Mathematics 150A. Mathematical Analysis I (5)  
 Mathematics 150B. Mathematical Analysis II (5)  
 Mathematics 210. Principles of Mathematics I (3) \*  
 Mathematics 310. Principles of Mathematics II (3)  
 Mathematics 240. Elementary Statistics (3)  
 Mathematics 251A. Analytic Geometry and Calculus (5)  
 Mathematics 251B. Analytic Geometry and Calculus (5)  
 Mathematics 225A. Calculus I (3)  
 Mathematics 255B. Calculus II (3)  
 Mathematics 260. Finite Mathematics (3)  
 Philosophy 100. General Logic (3)  
 Philosophy 210. Inductive Logic (3)  
 Philosophy 230. Symbolic Logic I (3)  
 Russian 102. Elementary Russian II (4)  
 Russian 201. Intermediate Russian I (4)  
 Russian 202. Intermediate Russian II (4)  
 Spanish 102. Elementary Spanish II (4)  
 Spanish 201. Intermediate Spanish I (4)  
 Spanish 202. Intermediate Spanish II (4)

+ Students electing a foreign language in Section G must have completed the 101 course or its equivalent. The 101 level course will carry subject and unit credit for graduation but may not be applied to the General Education Section G requirement.

\* Students seeking an elementary credential are urged to take Math 210 from Section G.

See San Fernando Valley State College Catalogue for general education requirements for specific majors.

## CALIFORNIA STATE COLLEGE AT LOS ANGELES

### (Semester Units)

Each candidate for the baccalaureate degree who enters California State College at Los Angeles with **30 or more semester units** must com-

plete a minimum of 45 units of general education distributed in the following pattern:

- I. Social Sciences ..... 9 units minimum  
Government (3)  
History (3)

At least three units from one of the following:

Anthropology  
Economics  
Geography  
Sociology

Note: A course or courses must be included which will satisfy the requirements in U. S. history, U. S. Constitution, and California state and local government.

Courses offered at California State College at Los Angeles which may be used to meet this requirement are the same as those listed in the Social Science section of General Education Program I.

- II. Natural Sciences ..... 9 units minimum  
Biology—At least three units in biological science (biology, botany, microbiology, zoology).

Physical Science—At least three units in physical science (astronomy, chemistry, geology, physics).

Courses offered at California State College at Los Angeles which may be used to meet this requirement are the same as those listed in the Natural Science section of General Education Program I.

- III. The Humanities ..... 9 units minimum  
At least three units each in fine arts (art, dance, drama, music), literature, and philosophy. Courses offered at California State College at Los Angeles which may be used to meet this requirement are:

Fine Arts:

Art 150, 350  
Music 350, 351  
Physical Education 350  
Speech 152

Philosophy:

Philosophy 150, 250

Literature:

English 250

- IV. Communication ..... 6 units minimum

Oral expression (3 units)

Written expression (3 units)

Courses offered at California State College at Los Angeles which may be used to meet this requirement are the same as those listed in the Communication section of General Education Program I.

V. Personal and Social Fitness ..... 7 units minimum

General psychology (3)

Personal health and safety (2)

Physical education activities (2)

Courses offered at California State College at Los Angeles which may be used to meet this requirement are the same as those listed in the Personal and Social Fitness section of General Education Program I.

VI. Electives ..... 5 units minimum

The student who takes only the minimal number of courses in each of five fields will have accumulated 40 units. He will then complete his 45 units by selecting 5 or more units from among the following:

- A. Any excess of units earned in meeting the requirements of I through V.
- B. Any courses listed in I through V which were not taken to complete the minimum requirements. (A maximum of two units of Physical Education Activity courses may be included in meeting the elective requirement.)
- C. Any of the courses listed under VI. C. in General Education Program I.

## CALIFORNIA STATE POLYTECHNIC COLLEGE

(CAL POLY)

### SAN LUIS OBISPO CAMPUS

(Quarter Units)

All candidates for the bachelor of science degree shall have completed the following general education requirements:

**Social Sciences** ..... 15 minimum units \*  
21 maximum units

9 units from AmCiv 301, 302, 303; Pol. Sc. 301; Hist 304, 305

6-12 units from Ec 201, 202, 213, 304, 308, 313, 413, 414; IR 311, 312; Hist. 101, 102, 103, 112; Geog. 308, 312, 315; Bus 301; Soc Sc 101; Ant 201, 301; Pol Sc 401; Actg 121, 131

**Natural Sciences** ..... 15 minimum units \*  
24 maximum units

3-21 units of Life Sciences from Bio 101, 102, 103, 110, 115, 127, 128, 129, 145, 200, 213, 227, 228, 229, 303, 307, 321; Bact 221; Bot 116, 121, 122, 124, 125; Zoo 122, 131, 132, 134, 135, 234, 237; Ent 126

3-21 units of Physical Science from PSc 101, 102, 103, 209, 216, 329;  
Phys 121, 122, 123, 131, 132, 133, 204, 211; Chem 321, 322, 323,  
324, 325, 326

**Mathematics** ..... 3 minimum units \*  
13 maximum units

3-10 units from Math 100, 101, 102, 103, 106, 108, 110, 111, 112, 117,  
118, 121, 122, 200, 204, 205, 206, 207, 210, 211

**Literature, Philosophy, and Art** ..... 9 minimum units \*  
13 maximum units

2-13 units from Eng 110, 111, 201, 202, 203, 207, 211, 212, 213, 306,  
311, 312, 313, 315, 403, 406

0-9 units from Phil 201, 202, 204, 205

0-4 units from courses in Fine and Practical Arts

**Health and Physical Education** ..... 5 minimum units \*  
5 maximum units

2 units from PE 107; 3 units from PE 141, 241

**Psychology** ..... 3 minimum units \*  
6 maximum units

3 units from Psy 202; 0-3 units from Psy 203, 205, 301, 314

**Oral and Written Expression** ..... 8 minimum units \*  
12 maximum units

6 units from Eng 104, 105

2-6 units from Eng 106, 216, 218, 219, 301; Sp 200, 201, 202, 203, 300

### **Additional Units in General Education (To make 68 units)**

Additional units in general education chosen from the above listed  
courses to make a total of at least 68 units but not exceeding the maxi-  
mum in any one category.

\* The minimum number of units specified must be taken in each category  
in order to meet the general education requirement. The maximum  
number of units in each category is the most that may be used to meet  
the general education requirement; but is not intended to limit the  
number of units of the listed courses required or elected beyond the  
68 units.

### **NOTE:**

It should be apparent from reading the general education requirements  
of the five schools noted above that the student is well advised in plan-  
ning a transfer program to confer with a counselor. Transfer programs  
to four year colleges must be planned in terms of anticipated transfer to  
specific institutions with a specific major. Each student should study the  
lower division curriculum in his particular field at the college or university  
of his choice. Catalogs for this purpose are available in the Counseling  
Center and the Library.



# OCCUPATIONAL-TECHNICAL PROGRAMS

Moorpark College provides training in a wide range of technical and occupational areas. Successful completion of one of these programs will provide the student with:

1. The Associate in Arts (A.A.) degree.
2. Preparation for immediate employment at a high level of proficiency and technical competence.

Each occupational-technical program has an accompanying description of work opportunities available in today's labor market. Two year programs offered in 1967-68 are as follows:

AGRICULTURE	HOME ECONOMICS
AGRONOMY	AIRLINE HOSTESS
ANIMAL HUSBANDRY	HOME FURNISHINGS
BUSINESS MANAGEMENT	MERCHANDISING
DATA PROCESSING	MARKETING, RETAILING,
ENGINEERING TECHNOLOGY	MERCHANDISING
ARCHITECTURAL ENGINEERING	PUBLIC SERVICE
CIVIL ENGINEERING	FIRE SCIENCE
ELECTRONIC ENGINEERING	LAW ENFORCEMENT
MECHANICAL DESIGN	SECRETARIAL PROGRAM
PHYSICAL SCIENCE	SECRETARY-TYPING
INDUSTRIAL TECHNOLOGY	SECRETARY-STENOGRAPHY
FOOD SERVICE MANAGEMENT	SECRETARY-HOME

# ACCOUNTING

## California State at Los Angeles

The Accounting program is a specialized portion of the Business Administration course of study and is designed to help the student meet the requirements as a Certified Public Accountant (CPA). The accountant works in both the private and public sectors in auditing, fiscal management, budgeting, investigation, tax accounting, cost accounting, and other professional accounting areas.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Business 1B	3
Business 1A	3	Economics 1B	3
Economics 1A	3	Political Science 3	3
Art 2 or Music 8	3	Mathematics 7	4
Data Processing 1	3	English 1B	3
English 1A	3	Physical Education 1	1/2
Physical Education 1	1/2		
<b>Total</b>		<b>Total</b>	
	16		16 1/2
Third Semester	Units	Fourth Semester	Units
Geology 2	3	Business 33	3
Biology 2A	4	Biology 2B	4
Mathematics 5	3	Philosophy 1A	3
History 5	3	Mathematics 21A	4
Psychology 1A	3	Physical Education 1	1/2
Physical Education 1	1/2	Physical Education 3	2
<b>Total</b>		<b>Total</b>	
	16 1/2		16 1/2

Student should take Speech 1 in the Summer Session.

# AGRICULTURE

The major fields of study outlined below are planned primarily for their vocational value in agricultural occupations. The courses and curriculums listed below have been planned with the major segments of Ventura and Los Angeles County's agriculture in mind. These majors lead to graduation from Moorpark College with the Associate in Arts degree.

## AGRI-BUSINESS — ANIMAL HUSBANDRY

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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Agriculture 2	2
Animal Husbandry 1	3	Animal Husbandry 5	3
Agronomy 1	3	Business 31	3
Business 30	3	Humanities 1B	6
Humanities 1A	6	Physical Education 1	1/2
Physical Education 1	1/2	Physical Education 3	2
<b>Total</b>		<b>Total</b>	
	16		16 1/2

Third Semester	Units	Fourth Semester	Units
Animal Husbandry 6	3	Agriculture 2	4
Business 3A	3	Business 3B	3
Business 37	3	Psychology 9	3
Chemistry 21	4	Biology 1A	4
Mathematics 40	3	Physical Education 1	1/2
Physical Education 1	1/2		
<hr/>		<hr/>	
Total	16 1/2	Total	14 1/2

### AGRI-BUSINESS -- AGRONOMY

This program is designed to provide a background of education and experience in agriculture with specialized training in the business field. Employment will ordinarily be found in the business office of an agricultural enterprise or in sales work related to agriculture.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Agronomy 2	3
Agronomy 1	3	Agriculture 2	2
Animal Husbandry 1	3	Business 31	3
Business 30	3	Business 3A	3
Humanities 1A	6	Humanities 1B	6
Physical Education 1	1/2	Physical Education 1	1/2
<hr/>		<hr/>	
Total	16	Total	17 1/2
Third Semester	Units	Fourth Semester	Units
Agriculture 2	2	Agriculture 2	2
Mathematics 40	3	Agriculture 21	3
Business 37	3	Entomology 1	3
Chemistry 21	4	Botany 1	5
Physical Education 3	2	Psychology 9	3
Physical Education 1	1/2	Physical Education 1	1/2
<hr/>		<hr/>	
Total	14 1/2	Total	16 1/2

### ARCHITECTURE

#### California State Polytechnic College at San Luis Obispo

Architects plan buildings and other structures and supervise their construction. Their goal is to design structures which are safe, useful, and pleasing in appearance. The study of architecture involves a mixture of applied arts and esthetics. Approximately half of our architects are self-employed, practicing either individually or as partners.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Mathematics 21B	4
English 1A	3	Physics 4	4
Mathematics 21A	4	Political Science 3	3
Art 4A	2	English 1B	3
Biology 2A	4	Physical Education 3	2
History 5	3	Physical Education 1	1/2
Physical Education 1	1/2		
<hr/>		<hr/>	
Total	17	Total	16 1/2

Continued

Third Semester	Units	Fourth Semester	Units
Engineering Technology 17A	2	Engineering Technology 17B	2
Physics 5	4	Physics 6	4
Engineering 5A	3	Psychology 1A	3
Economics 1A	3	Chemistry 1A	5
Mathematics 22A	4	Mathematics 18	2
Physical Education 1	1/2	Physical Education 1	1/2
<hr/>		<hr/>	
Total	16 1/2	Total	16 1/2

Student should take Speech 1 and Engineering Technology in summer session.

## ART

### California State College at Long Beach

Artists teach us how to see. The principles of color and design are basic to the way man sees himself and the world in which he lives. The art major studies man's perception as it is translated into visual and graphic form. The person who has studied and mastered the discipline of art may be a free-lance artist, a commercial artist, a teacher, a professional photographer, a fashion designer, an interior decorator, or may work in any number of related fields.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Art 4B	2
Art 4A	2	Art 12B	2
Art 12A	2	Political Science 3	3
Psychology 1A	3	Physical Science 1	3
History 5	3	Physical Education 3	2
English 1A	3	Elective	3
Physical Education 1	1/2	Physical Education 1	1/2
<hr/>		<hr/>	
Total	14	Total	15 1/2

Third Semester	Units	Fourth Semester	Units
Art 1A	3	Art 1B	3
Art 13A	2	Art 13B	2
Art 16A	2	Art 16B	2
English 30 or Philosophy 1A	3	Social Science Elective	3
Speech 1	3	Elective	2
Geology 2, 2L	4	Biology 2A	4
Physical Education 1	1/2	Physical Education 1	1/2
<hr/>		<hr/>	
Total	17 1/2	Total	16 1/2

## BIOLOGY

### San Fernando Valley State

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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Biology 2B	4
Biology 2A	4	Chemistry 1B	5
Chemistry 1A	5	Physical Education 3	2
English 1A	3	Political Science 3	3
History 7A	3	Speech 1	3
Physical Education 1	1/2	Physical Education 1	1/2
<hr/>		<hr/>	
Total	16	Total	17 1/2
Third Semester	Units	Fourth Semester	Units
Chem 8	3	Chem 9	3
Physics 2A	4	English 31	3
Psych 1A	3	Art 2 or Music 8	3
Economics 1A	3	Physics 2B	4
Statistics	3	Geography 2	3
Physical Education 1	1/2	Physical Education 1	1/2
<hr/>		<hr/>	
Total	16 1/2	Total	16 1/2

Student should take Philosophy 1A in the summer session.

## BUSINESS ADMINISTRATION

### San Fernando Valley State College

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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Economics 1B	3
Economics 1A	3	Political Science 3	3
History 7A	3	Art 2 or Music 8	3
English 1A	3	English 1B	3
Biology 2A	4	Biology 2B	4
Psychology 1A	3	Physical Education 1	1/2
Physical Education 1	1/2	<hr/>	
Total	17	Total	16 1/2
Third Semester	Units	Fourth Semester	Units
Business 1A	3	Business 1B	3
Mathematics 7	4	Business 33	3
Sociology 1	3	Speech 1	3
Physical Science 1	3	Philosophy 1A	3
Physical Education 3	2	Statistics 1	3
Physical Education 1	1/2	Physical Education 1	1/2
<hr/>		<hr/>	
Total	15 1/2	Total	15 1/2

## BUSINESS MANAGEMENT

This program is designed to provide the student with job skills to permit him to initiate or maintain his own small business or to be in a management position in a financial institution (commercial banks, savings and loan associations, consumer finance companies). A student is assisted in permanent placement upon completion of the AA Degree in management.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Business 31	3
Business 30	3	Business 36	3
Business 35	3	Business 3B	3
Business 3A	3	Humanities 1B	6
Humanities 1A	6	Physical Education I	1/2
Physical Education I	1/2		
	<hr/>		
Total	16	Total	15 1/2
Third Semester	Units	Fourth Semester	Units
Data Processing I	3	Business 33	3
Business 37	3	Psychology 9	3
Business 7A	3	Data Processing 3	4
Mathematics 40	3	Business 11A	3
Speech 15	3	Physical Education 3	2
Physical Education I	1/2	Physical Education I	1/2
	<hr/>		
Total	15 1/2	Total	15 1/2

## CHEMISTRY

### University of California at Santa Barbara

Chemists are concerned with the composition and properties of substances and changes in their composition; they search for new knowledge of the chemistry of substance and for ways of using this knowledge. Chemistry is by far the largest field of employment in the sciences. A wide range of opportunities awaits 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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Mathematics 21B	4
Mathematics 21A	4	Chemistry 1B	5
Chemistry 1A	5	Physics 4	4
English 1A	3	German	4
German	4	Physical Education I	1/2
Physical Education I	1/2		
	<hr/>		
Total	17	Total	17 1/2

Third Semester	Units	Fourth Semester	Units
Physics 5	4	English 1B	3
Biology 2A	4	Chemistry 9	3
Chemistry 8	3	Music 8 or Art 2	3
German 2A	4	History 5	3
Political Science	3	Physics 6	4
Physical Education I	1/2	Physical Education I	1/2
<b>Total</b>	<b>18 1/2</b>	<b>Total</b>	<b>16 1/2</b>

Students should take Psychology 1A and Sociology I in the summer session.

## DATA PROCESSING

Designed to prepare students for employment in businesses 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 trainees in stored programming.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Data Processing 3	4
Data Processing I	3	Mathematics 40	3
Business 30	3	Business 1B	3
Business 1A	3	Humanities 1B	6
Humanities 1A	6	Physical Education I	1/2
Physical Education I	1/2		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16 1/2</b>
Third Semester	Units	Fourth Semester	Units
Data Processing 4A	3	Data Processing 4B	3
Business 11A	3	Data Processing 6	4
Business 7A	3	Speech 15	3
Psychology 9	3	Business 5	3
Business 33	3	Physical Education 3	2
Physical Education I	1/2	Physical Education I	1/2
<b>Total</b>	<b>15 1/2</b>	<b>Total</b>	<b>15 1/2</b>

## DENTAL HYGIENE

**University of California at Los Angeles**

The major in dental hygiene prepares the students 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.

**Continued**

First Semester	Units	Second Semester	Units
Orientation 2	1/2	English 1B	3
English 1A	3	Chemistry 1B	5
Chemistry 1A	5	History 7B	3
History 7A	3	Psychology 1B	3
Psychology 1A	3	Physical Education I	1/2
Physical Education 3	2		
Physical Education I	1/2	Total	14 1/2
<hr/>			
Total	17		
Third Semester	Units	Fourth Semester	Units
Biology 2A	4	Biology 2B	4
Foreign Language	4	Foreign Language	4
Chemistry 8	8	Speech I	3
English 3I	3	Philosophy 1A	3
Economics 1A	3	Sociology I	3
Physical Education I	1/2	Physical Education I	1/2
<hr/>			
Total	17 1/2	Total	17 1/2

## DENTISTRY (PRE-DENTAL)

### University of California at Los Angeles

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 these specialties.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Chemistry 1B	5
Chemistry 1A	5	Biology 2B	4
Biology 2A	4	English 1B	3
English 1A	3	Foreign Language	4
Foreign Language	4	Physical Education I	1/2
Physical Education I	1/2		
<hr/>		Total	16 1/2
Total	17		
Third Semester	Units	Fourth Semester	Units
Physics 2A	4	Physics 2B	4
Chemistry 5	3	Chemistry 8, 9	6
Political Science 3	3	Political Science 2	3
Philosophy 1A	3	English 3I	3
History 7A	3	Physical Education I	1/2
Physical Education I	1/2		
<hr/>		Total	16 1/2
Total	16 1/2		



# DEPARTMENT OF ENGINEERING AND ENGINEERING TECHNOLOGY

The Engineering and Engineering Technology Department offers three basic programs: (1) the first two years of a four-year engineering curriculum leading to a Bachelor of Science degree; (2) two-year engineering technology curriculums in five separate areas which lead to an Associate of Arts degree and certification as an Engineering Technician; and (3) electronics technology programs which lead to an A.A. degree.

## ENGINEERING

### University of California at Los Angeles

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 of 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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Philosophy 1A	3
Engineering 2	2	Chemistry 1B	5
Engineering 20	1	Mathematics 21B	4
Chemistry 1A	5	Physics 4	4
Mathematics 21A	4	Physical Education I	1/2
English 1A	3		
Physical Education I	1/2		
	<hr/>		<hr/>
Total	16	Total	16 1/2
Third Semester	Units	Fourth Semester	Units
Engineering 12	3	Engineering	3
* Engineering 15	3	Mathematics 22B	4
Mathematics 22A	4	Physics 6	4
Physics 55	4	English 1B	3
Political Science 3	3	History 7A	3
Physical Education I	1/2	Physical Education I	1/2
	<hr/>		<hr/>
Total	17 1/2	Total	17 1/2

\* All UCLA Civil Engineers substitute Engineering 5A

## ENGINEERING TECHNICIAN

An engineering technician, according to the American Society for Engineering Education, applies scientific and engineering knowledge and methods in support of engineering activities. Occupationally, engineering technology lies between the crafts and engineering, but is closer to engineering. A wide range of employment opportunities are currently available in Ventura and Los Angeles Counties for graduates from any of these programs.

The Engineering Technology programs are available in the areas of Architectural Engineering, Civil Engineering, Electronics Engineering, Mechanical Design, and Physical Science.

The National Society of Professional Engineers has sponsored a program whereby qualified Engineering Technicians may become Certified Engineering Technicians. This certification has received wide acceptance and may be applied for by graduates of the Engineering Technician programs.

### ARCHITECTURAL ENGINEERING TECHNOLOGY

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Engineering 3	2
Engineering Technology 1	1	Mathematics 30B	3
Engineering Technology 2	2	Physics 11B	4
Mathematics 30A	3	Humanities 1B	6
Physics 11A	4	Physical Education 1	1/2
Humanities 1A	6		<hr/>
Physical Education 1	1/2	Total	15 1/2
	<hr/>		
Total	17		

Third Semester	Units	Fourth Semester	Units
Engineering 5A	3	Engineering Technology 16B	2
Engineering Technology 17A	2	Engineering Technology 17B	2
Engineering Technology 30	3	Engineering Technology 32	3
Engineering Technology 31	3	Engineering Technology 38	2
Art 12A	2	* Mathematics 18	2
Mathematics 30C	3	Psychology 9	3
Physical Education 1	1/2	Physical Education 3	2
	<hr/>	Physical Education 1	1/2
Total	16 1/2		<hr/>
		Total	16 1/2

Note: It is recommended that Art 4A — Color and Design (2 units) should be taken during summer session.

\* or Engineering Technology 18

## CIVIL ENGINEERING TECHNOLOGY

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Engineering 3	2
Engineering Technology 1	1	Mathematics 30B	3
Engineering Technology 2	2	Physics 11B	4
Mathematics 30A	3	Humanities 1B	6
Physics 11A	4	Physical Education I	1/2
Humanities 1A	6		
Physical Education I	1/2	Total	15 1/2
<hr/>			
Total	17		
Third Semester	Units	Fourth Semester	Units
Engineering 5A	3	Engineering 5B	3
Engineering Technology 16A	2	Engineering Technology 16B	2
Engineering Technology 30	3	Engineering Technology 32	3
Engineering Technology 31	3	Engineering Technology 34	3
Mathematics 30C	3	Engineering Technology 36	2
Physical Education 3	2	Psychology 9	3
Physical Education I	1/2	Physical Education I	1/2
<hr/>			
Total	16 1/2	Total	16 1/2

Note: Engineering Technology 38—Construction Inspection (2 units) and Mathematics 18—Computer Programming (2 units) should be taken during summer session.

## ELECTRONIC ENGINEERING TECHNOLOGY

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Engineering Technology 22B	4
Engineering Technology 22A	4	Engineering Technology 26	3
Mathematics 30A	3	Mathematics 30B	3
Physics 11A	4	Physics 11B	4
Humanities 1A	6	Physical Education I	1/2
Physical Education I	1/2		
<hr/>			
Total	18	Total	14 1/2

**Continued**

Third Semester	Units	Fourth Semester	Units
Engineering Technology I	1	Engineering Technology 24B	5
Engineering Technology 24A	5	*Engineering Technology 42	3
Engineering Technology 46	4	Psychology 9	3
Mathematics 30C	3	Humanities 1B	6
Physical Education 3	2	Physical Education I	$\frac{1}{2}$
Physical Education I	$\frac{1}{2}$		<hr/>
Total	$15\frac{1}{2}$	Total	$17\frac{1}{2}$

\*or Engineering Technology 10—Electromechanical Drafting, Engineering Technology 28—Electronic Measurements, Engineering Technology 29—Electronic Projects, Engineering Technology 44—Automated Controls.

### MECHANICAL DESIGN TECHNOLOGY

First Semester	Units	Second Semester	Units
Orientation 2	$\frac{1}{2}$	Engineering Technology 10	2
Engineering Technology I	1	Mathematics 30B	3
Engineering Technology 2	2	Physics 11B	4
Mathematics 30A	3	Humanities 1B	6
Physics 11A	4	Physical Education I	$\frac{1}{2}$
Humanities 1A	6		<hr/>
Physical Education I	$\frac{1}{2}$	Total	$15\frac{1}{2}$
Total	17		

Third Semester	Units	Fourth Semester	Units
Engineering Technology 11	2	Engineering 3	2
Engineering Technology 14	2	*Engineering Technology 18	2
Engineering Technology 30	3	Engineering Technology 32	3
Engineering Technology 31	3	Engineering Technology 34	3
Electronics I	4	Psychology 9	3
Mathematics 30C	3	Physical Education 3	2
Physical Education I	$\frac{1}{2}$	Physical Education I	$\frac{1}{2}$
	<hr/>		<hr/>
Total	$17\frac{1}{2}$	Total	$15\frac{1}{2}$

\* Mathematics 18 — Computer Programming (2 units) or Engineering Technology 13 — Reproduction of Graphic Materials

## GENERAL ENGINEERING TECHNOLOGY

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Engineering Technology 22B	4
Engineering Technology 22A	4	Mathematics 30B	3
Mathematics 30A	3	Physics 11B	4
Physics 11A	4	Humanities 1B	6
Humanities 1A	6	Physical Education I	1/2
Physical Education I	1/2		<hr/>
Total	18	Total	17 1/2
Third Semester	Units	Fourth Semester	Units
Engineering Technology I	1	Engineering Technology 10	2
Engineering Technology 2	2	Engineering Technology 32	3
Engineering Technology 30	3	Mathematics 18	2
Engineering Technology 31	3	Chemistry 1B	5
Chemistry 1A	5	Psychology 9	3
Mathematics 30C	3	Physical Education 3	2
Physical Education I	1/2	Physical Education I	1/2
	<hr/>		<hr/>
Total	17 1/2	Total	17 1/2

## ELECTRONIC TECHNOLOGY

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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Engineering Technology 26	3
Engineering Technology I	1	Electronics 3B	3
Industrial Technology I	2	Mathematics 30B	3
Electronics 3A	3	Humanities 1B	6
Mathematics 30A	3	Physical Education I	1/2
Humanities 1A	6		<hr/>
Physical Education I	1/2	Total	15 1/2
	<hr/>		<hr/>
Total	16		

Continued

Third Semester	Units	Fourth Semester	Units
Engineering Technology 2	2	Engineering Technology 10	2
Engineering Technology 28	2	Engineering Technology 29	2
Electronics 4A	4	Electronics 4B	4
Physics 11A	4	*Engineering Technology 42	3
Physical Education 3	2	Psychology 9	3
Physical Education 1	$\frac{1}{2}$	Elective	2
Total	$14\frac{1}{2}$	Physical Education 1	$\frac{1}{2}$
		Total	$16\frac{1}{2}$

\* Either Engineering Technology 42 or Engineering Technology 44 may be taken.

## ECONOMICS

### California State College at Fullerton

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 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.

First Semester	Units	Second Semester	Units
Orientation 2	$\frac{1}{2}$	Economics 1B	3
Economics 1A	3	Statistics 1	3
Political Science 3	3	Mathematics 21A	4
History 7A	3	Physical Science 1	3
Mathematics 5	3	English 1B	3
English 1A	3	Physical Education 1	$\frac{1}{2}$
Physical Education 1	$\frac{1}{2}$	Total	$16\frac{1}{2}$
Total	16		

Third Semester	Units	Fourth Semester	Units
Business 1A	3	Business 1B	3
Philosophy 1A	3	Geology 2	3
Art 2	3	English 15A	3
Speech 1	3	Music 8	8
Biology 2A	4	Physical Education 3	2
Physical Education 1	$\frac{1}{2}$	Psychology 1A	3
Total	$16\frac{1}{2}$	Physical Education 1	$\frac{1}{2}$
		Total	$17\frac{1}{2}$

NOTE: Complete the American Economy History course at CSCF.

# ENGLISH

## University of California at Santa Barbara

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, short-story writers, 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, innuendos, 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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	English 1B	3
English 1A	3	Foreign Language	4
Foreign Language	4	History 1B	3
History 1A	3	Geology 2 and 2L	4
Biology 2A	4	Art 2	3
Physical Education I	1/2	Physical Education I	1/2
Total	15	Total	17 1/2
Third Semester	Units	Fourth Semester	Units
English 30	3	Foreign Language	4
Foreign Language	4	Political Science 3	3
Anthropology I	3	History 5	3
Music 8	3	Psychology 1A	3
Philosophy 1A	3	Philosophy 1B	3
Physical Education I	1/2	Physical Education I	1/2
Total	16 1/2	Total	16 1/2

Student must take English 35 (Introduction to Poetry) at UCSB.

## FIRE SCIENCE

This responsible and life-saving work is in demand in the community. This program provides training to meet this demand. The courses in this program are scheduled on the recommendation of the Ventura County Fire Science Advisory Committee. Class sessions may be repeated each week to adjust to the working hours of the fire protection personnel.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	*Fire Science 92	3
*Fire Science 90	3	*Fire Science 93	3
*Fire Science 91	3	Speech 15	3
English 2	3	Chemistry 21	4
Mathematics 40	3	Physical Education 3	2
Physical Science I	3	Physical Education I	1/2
Physical Education I	1/2	Total	15 1/2
Total	16		

Continued

Third Semester	Units	Fourth Semester	Units
*Fire Science 94	3	*Fire Science 97	3
*Fire Science 96	3	*Fire Science 99	3
History 5	3	Political Science 3	3
Art 2 or Music 8	3	English 31	3
Physical Education 2	2	Psychology 9	3
Physical Education 1	$\frac{1}{2}$	Physical Education 1	$\frac{1}{2}$
<b>Total</b>	<u>14<math>\frac{1}{2}</math></u>	<b>Total</b>	<u>15<math>\frac{1}{2}</math></u>

\* Fire Science Core Courses

**Note:** Fire Science Electives

- Fire Science 95
- Fire Science 98
- Fire Science 100
- Fire Science 101
- Fire Science 102
- Fire Science 103

## FOOD SERVICE MANAGEMENT

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. Moorpark College is expected to have sustained and dynamic growth in the food service area.

\*Offered only in the evening

\*\*Electives should be taken in the Division of Technology.

First Semester	Units	Second Semester	Units
Orientation 2	$\frac{1}{2}$	*Food Services 92	1
Food Services 91	2	*Food Services 93	1
*Food Services 94	1	*Food Services 96	1
Food Services 95	3	Business 30	3
Mathematics 40	3	Psychology 9	3
Humanities 1A	6	Humanities 1B	6
Physical Education 1	$\frac{1}{2}$	Physical Education 1	$\frac{1}{2}$
<b>Total</b>	<u>16</u>	<b>Total</b>	<u>15<math>\frac{1}{2}</math></u>
Third Semester	Units	Fourth Semester	Units
Business 7A	3	Business 31	3
Business 11A	3	Business 33	3
Business 36	3	**Electives	7
**Electives	4	Physical Education 3	2
Home Economics 10	2	Physical Education 1	$\frac{1}{2}$
Physical Education 1	$\frac{1}{2}$	<b>Total</b>	<u>15<math>\frac{1}{2}</math></u>
<b>Total</b>	<u>15<math>\frac{1}{2}</math></u>		



# FOREIGN LANGUAGE

## University of California at Los Angeles

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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Foreign Language	4
Foreign Language	4	English 1B	3
English 1A	3	History 1B	3
History 1A	3	Psychology 1A	3
Biology 2A	4	Biology 2B	4
Physical Education 1	1/2	Physical Education 1	1/2
Total		Total	
	15		17 1/2
Third Semester	Units	Fourth Semester	Units
Foreign Language	4	Foreign Language	4
English 15A	3	English 15B	3
Philosophy 1A	3	Philosophy 1B	3
History 7A	3	Political Science 3	3
Physical Science 1	3	Geology 2	3
Physical Education 1	1/2	Physical Education 1	1/2
Total		Total	
	16 1/2		16 1/2

Majors in French, German, and Spanish should take their appropriate language speciality where indicated above.

# GEOLOGY

## San Fernando Valley State College

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 research or teaching.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Chemistry 1B	5
Chemistry 1A	5	English 1A	3
Geology 2, 2L	4	Biology 2B	4
Mathematics 21A	4	Geology 3	3
Biology 2A	4	Physical Education 3	2
Physical Education 1	1/2	Physical Education 1	1/2
Total		Total	
	18		17 1/2

Continued

Third Semester	Units	Fourth Semester	Units
Physics 2A	4	Physics 2B	4
Philosophy 1A	3	Psychology 1A	3
Speech 1	3	Statistics 1	3
Economics 1A	3	Art 2 or Music 8	3
History 5	3	Political Science 3	3
Physical Education 1	1/2	Physical Education 1	1/2
	<hr/>		<hr/>
Total	16 1/2	Total	16 1/2

Recommended that 3 units of literature and 6 units of social sciences be taken in the summer session.

## HISTORY

### San Fernando Valley State College

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 historians today are employed in schools and colleges. Approximately 10% are employed in federal government agencies; and a small but growing number are employed by other government agencies, nonprofit foundations, research councils, libraries, and corporations.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	History 7B	3
History 7A	3	Sociology 1	3
Anthropology 2	3	Speech 1	3
Psychology 1A	3	English 1B	3
Art 2 or Music 8	3	Physical Science 1	3
English 1A	3	Physical Education 1	1/2
Physical Education 1	1/2		<hr/>
	<hr/>	Total	15 1/2
Total	16		

Third Semester	Units	Fourth Semester	Units
History 1A	3	History 1B	3
Political Science 1	3	Philosophy 2	3
Philosophy 1A	3	Economics 1A	3
Geography 1	3	Geography 2	3
Physical Education 3	2	Biology 2A	4
Physical Education 1	1/2	Physical Education 1	1/2
	<hr/>		<hr/>
Total	14 1/2	Total	16 1/2

# HOME ECONOMICS

Home Economics is the field of knowledge and service primarily concerned with strengthening family life through the attainment of the well-being of individuals and families, the improvement of homes, and the preservation of values significant in home life.

## HOME ECONOMICS -- AIRLINE HOSTESS

Applicants for airline stewardess training must generally meet the following basic qualifications:

Age: 20 through 27

Height: 5'2" to 5'9"

Weight: 100 to 140 pounds

Marital Status: Single

Vision: 20/50 or better without

glasses; contacts considered.

Each applicant is required by the airlines to pass a rigid physical examination approved by the medical department of the airlines.

The following program of study is recommended for those who wish to apply for airline stewardess training.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Humanities 1B	6
Humanities 1A	6	Food Services 92, 93, 96	3
Home Economics 17	3	Business 11B	3
Business 11A	3	*Foreign Language	4
*Foreign Language	4	Physical Education I	1/2
Physical Education I (Modern Dance)	1/2	(Body Mechanics)	
	<hr/>	Total	<hr/>
Total	17		16 1/2
Third Semester	Units	Fourth Semester	Units
Home Economics 5	3	Home Economics 23	2
Home Economics 10	2	Geography 2	3
Business 15A	3	Speech 15	3
Business 30	3	Psychology 9	3
Physical Science 1	3	Sociology 4	3
Physical Education 3	2	Physical Education I	1/2
Physical Education 1	1/2		<hr/>
	<hr/>	Total	<hr/>
Total	16 1/2		14 1/2

\*Recommended for employment on international airlines, otherwise suggested electives are: Business 3A-3B, Business 25D, Mathematics 40, Food Services 95, Psychology 2.

## HOME FURNISHINGS MERCHANDISING

The home furnishings merchandising curriculum has been developed in cooperation with representatives of the home furnishings industry and the Home Furnishings Education Foundation. Students who successfully complete the curriculum will be prepared to assume various positions in sales, purchasing and management in the industry.

Continued

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Business 30	3
Business 35	3	Business 36	3
Home Economics 5	3	Home Economics 20	2
Art 4A	2	Art 4B	2
Humanities 1A	6	Humanities 1B	6
Physical Education 3	2	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>	Total	<hr/>
Total	17		16 1/2

Third Semester	Units	Fourth Semester	Units
Business 3A	3	Business 25D	2
Business 37	3	Business 33	3
*Home Economics 17	3	Sociology 4	3
Art 29A	2	Mathematics 40	3
Psychology 9	3	Art 29B	2
**Elective	2	**Elective	2
Physical Education 1	1/2	Physical Education 1	1/2
	<hr/>	Total	<hr/>
Total	16 1/2	Total	15 1/2

\*Will be an elective for men only

\*\*Suggested electives: Business 11A or 11B, Business 3B.

## JOURNALISM

### San Jose State College

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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Journalism 1B	3
Journalism 1A	3	Psychology 1A	3
Photography 1	3	English 1B	3
English 1A	3	History 7B	3
History 7A	3	Biology 2B	4
Biology 2A	4	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>	Total	<hr/>
Total	17	Total	16 1/2

Third Semester	Units	Fourth Semester	Units
Philosophy 1A	3	Sociology I	3
English 30 or 31	3	Speech I	3
Economics 1A	3	Economics 1B	3
History 1A	3	History 1B	3
Political Science 3	3	Physical Science I	3
Physical Education I	1/2	Physical Education I	1/2
<b>Total</b>	<b>15 1/2</b>	<b>Total</b>	<b>15 1/2</b>

Journalism 55 should be taken at S.J.S.C.

## LAW ENFORCEMENT

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

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Law Enforcement 8	3
Law Enforcement I	3	Law Enforcement 15	3
Law Enforcement 4A	3	Speech 15	3
Psychology 9	3	Humanities 1B	6
Humanities 1A	6	Physical Education I	1/2
Physical Education I	1/2	<b>Total</b>	<b>15 1/2</b>
<b>Total</b>	<b>16</b>		
Third Semester	Units	Fourth Semester	Units
Law Enforcement 9A	1	Law Enforcement 13	3
Law Enforcement 10A	3	Law Enforcement 14	3
Law Enforcement 10B	3	Physical Science I	3
Business 11A	3	Mathematics 40	3
Sociology 4	3	Physical Education 2	2
Photography I	3	Physical Education 3	2
Physical Education I	1/2	Law Enforcement 12	1/2
<b>Total</b>	<b>16 1/2</b>	<b>Total</b>	<b>16 1/2</b>

## LIBERAL ARTS

### California State College

The man or woman with a background in the liberal arts may fulfill the Renaissance ideal of the "compendious individual." This is the person with the overview. The liberal arts are intended to develop an appreciation and understanding of the humanities and a keen, critical sense. Specialties include such fields as art, dance, drama, English and literature, language arts, music, philosophy, religion, and speech. A liberal arts background will prepare the student for graduate studies in fields as diversified as law, medicine, administration, and the social sciences.

Continued

First Semester	Units	Second Semester	Units
Orientation 2	1/2	English 1B	3
English 1A	3	Art 1A	3
Biology 2A	4	Speech 1	3
Psychology 1A	3	Political Science 3	3
Economics 1A	3	Physical Science 1	3
History 7A	3	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>	Total	<hr/>
Total	17		15 1/2

Students should select a major by the end of the freshman year.

## MARKETING

### RETAILING, MERCHANDISING

This program should prepare the student for a career in retail selling including promotion to a management position in the retail field. Current openings in this field provide ample opportunity for part-time work experience while in attendance and permanent placement upon completion of the A.A. degree in the marketing programs.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Business 36	3
Business 30	3	Business 37	3
Business 35	3	Speech 15	3
Mathematics 40	3	Humanities 1B	6
Humanities 1A	6	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>	Total	<hr/>
Total	16		15 1/2

Third Semester	Units	Fourth Semester	Units
Business 3A	3	Business 3B	3
Business 7A	3	Data Processing 3	4
Psychology 9	3	Business 33	3
Data Processing 1	3	Home Economics 20	2
Art 4A	2	Art 4B	2
Physical Education 3	2	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>	Total	<hr/>
Total	16 1/2		14 1/2

# MATHEMATICS

## San Fernando Valley State College

Plato considered mathematics and music the purest of the sciences, searching out, as they do, the abstract structures of the universe. But on a less ethereal 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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	English 1B	3
English 1A	3	Mathematics 21B	4
Mathematics 21A	4	Physics 4	4
Biology 2A	4	Political Science 3	3
History 7A	3	Psychology 1A	3
Physical Education 3	2	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>		<hr/>
Total	17	Total	17 1/2
Third Semester	Units	Fourth Semester	Units
Mathematics 22A	4	Mathematics 22B	4
English 15A	3	English 15B	3
Economics 1A	3	Speech 1	3
Physics 5	4	Sociology 1	3
Philosophy 1A	3	Art 2 or Music 8	3
Orientation 2	1/2	Physical Education 1	1/2
	<hr/>		<hr/>
Total	17 1/2	Total	16 1/2

# MEDICINE (PRE.)

## University of California at Los Angeles

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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	English 1B	3
English 1A	3	Chemistry 1B	5
Chemistry 1A	5	Foreign Language	4
Foreign Language	4	Psychology 1A	3
Mathematics 7 (or elective)	4	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>		<hr/>
Total	17	Total	15 1/2

Continued

Third Semester	Units	Fourth Semester	Units
Biology 2A	4	Biology 2B	4
Physics 2A	4	Physics 2B	4
Mathematics 21A	4	History 5	3
Chemistry 5	3	Chemistry 8, 9	6
Political Science 3	3	Physical Education I	1/2
Physical Education I	1/2		
	<hr/>		<hr/>
Total	18 1/2	Total	17 1/2

Recommended that 6 additional units in social sciences and/or humanities be taken in one of the summer sessions.

## MUSIC

### San Fernando Valley State College

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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Music 9B	3
Music 9A	3	Music 2B	4
Music 2A	4	Music 10, 15, 18 or 21	2
Music 10, 15, 18 or 21	2	English 1B	3
English 1A	3	Geology 2	3
Physical Science I	3	Physical Education 3	2
Physical Education I	1/2	Physical Education I	1/2
	<hr/>		<hr/>
Total	16	Total	17 1/2
Third Semester	Units	Fourth Semester	Units
Music 2C	4	Music 10, 15, 18 or 21	1
Music 10, 15, 18 or 21	1	Music 2D	4
Music 24A	2	Music 24B	2
Speech I	3	Philosophy 2	3
Philosophy 1A	3	Political Science 3	3
History 7A	3	Biology 2A	4
Physical Education I	1/2	Physical Education I	1/2
	<hr/>		<hr/>
Total	16 1/2	Total	17 1/2

Recommended that Psychology 1A, Political Science 3, and History 5 be taken in the summer sessions.



## PHARMACY (PRE)

### University of Southern California

The pre-pharmacy curriculum provides the student with preparation for the School of Pharmacy at the University. The graduate is trained to identify, formulate, manufacture and distribute drugs; to help in the control of habit-forming drugs and in the enforcement of laws pertaining to drugs; and to cooperate in the control of disease. Pharmacists are employed in retail pharmacies, hospital pharmacies, laboratories, and in industrial plants as well as in public agencies and in the Armed Forces.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	English 1B	3
English 1A	3	Physics 2B	4
Physics 2A	4	Chemistry 1B	5
Chemistry 1A	5	History 5	3
Psychology 1A	3	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>		
Total	16	Total	15 1/2
Third Semester	Units	Fourth Semester	Units
Biology 2A	4	Biology 2B	4
History 1A	3	History 1B	3
Speech 1	3	Economics 1B	3
Economics 1A	3	Political Science 3	3
Physical Education 3	2	Music 8 or Art 2	3
Physical Education 1	1/2	Physical Education 1	1/2
	<hr/>		
Total	15 1/2	Total	16 1/2

Student should have completed typing, 2 years of algebra and trigonometry in high school.

## PHILOSOPHY

### California State College at Long Beach

In a general sense, philosophy includes the sciences, social sciences, and humanities as they involve the art of reasoning and develop an understanding of the human condition. The philosophy student studies the chief schools of ideas (such as Realism, Idealism, Empiricism) and develops a sense of their relationships and interdependences. In addition, he is concerned with such subjects as how man learns and the values he creates.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Philosophy 1B	3
Philosophy 1A	3	English 1B	3
English 1A	3	Art 1, 2, Music 8 or 9	3
History 7A	3	Speech 1	3
Biology 2A	4	Political Science 3	3
Physical Education 3	2	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>		
Total	16	Total	15 1/2

Continued

Third Semester	Units	Fourth Semester	Units
Psychology 1A	3	Philosophy 2	3
Sociology 1	3	Sociology 2	3
Economics 1A	3	Anthropology 2	3
History 1A	3	History 1B	3
Physical Science 1	3	Geology 2, 2L	4
Physical Education 1	1/2	Physical Education 1	1/2
<b>Total</b>	<b>15 1/2</b>	<b>Total</b>	<b>16 1/2</b>

## PHYSICAL EDUCATION

### San Fernando Valley State College

The physical education program is designed to provide an opportunity for the student to complete the lower division general education requirements. Opportunity is further provided the physical education student to gain broad skills which will permit him to coach or teach in the public or private schools or colleges. The physical educator plays an important role in a society that is pre-occupied with wheels. He motivates, organizes, teaches and coaches in the area of physical skills. There are many opportunities for both men and women in this field.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Home Economics 10	3
Psychology 1A	3	Anthropology 2	3
Sociology 1	3	English 1B	3
Biology 2A	4	Biology	4
English 1A	3	Physical Education 5	2
Physical Education 3	2	Physical Education 1	1
Physical Education 1	1		
<b>Total</b>	<b>16 1/2</b>	<b>Total</b>	<b>16</b>

Third Semester	Units	Fourth Semester	Units
Philosophy 1A	3	Philosophy	3
Political Science 3	3	History 7A	3
Speech 1	3	Physical Science 1	3
Art 2 or Music 8	3	Physiology 1	5
Anatomy 1	3	Physical Education 1	1
Physical Education 1	1		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>

Physical Education Activities should include:

Badminton	Team Sports (women only)
Tennis	Seasonal Sports (men only)
Archery	Modern Dance (coeducational)
Golf	Body Mechanics (women only)
Body Building (men only)	Gymnastics and Tumbling
Wrestling (men only)	(women only)
Gymnastics (men only)	

# PHYSICAL THERAPY

University of California at Los Angeles

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, in governmental services, and in industrial applications.

Student should take Physical Education 43 at UCLA.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	English 1B	3
English 1A	3	Foreign Language	4
Foreign Language	4	Chemistry 1B	5
Chemistry 1A	5	Psychology 1B	3
Psychology 1A	3	Physical Education 2	2
Physical Education 3	2	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>	Total	17 1/2
Total	18		
Third Semester	Units	Fourth Semester	Units
Biology 2A	4	Biology 2B	4
History 7A	3	Chemistry 8, 9	6
English 3I	3	Political Science 3	3
Physics 2A	4	Physics 2B	4
Mathematics 7	4	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>	Total	17 1/2
Total	18 1/2		

# PHYSICS

University of California at Los Angeles

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 an understanding of the laws of matter and energy and in applying this understanding in a wide range of careers. Opportunities for research and development abound in industry and in government. There is great need in schools, colleges, and universities for teachers and research physicists, as well as in the space and electronic industries.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Chemistry 1B	5
Chemistry 1A	5	Mathematics 21B	4
Mathematics 21A	4	Physics 4	4
Foreign Language	4	Foreign Language	4
English 1A	3	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>	Total	17 1/2
Total	17		

Continued

Third Semester	Units	Fourth Semester	Units
Mathematics 22A	4	Mathematics 22B	4
Physics 5	4	Physics 6	4
Biology 2A	4	Biology 2B	4
History 7A	3	History 7B	3
Philosophy 1A	3	Political Science 3	3
Physical Education I	1/2	Physical Education I	1/2
Total	18 1/2	Total	18 1/2

Student needs to take mathematics 12A (Linear Algebra) and an English Literature course at UCLA.

## POLITICAL SCIENCE

### University of California at Los Angeles

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 level of government. They make studies of legislation and analyze the operations of government agencies and of nongovernment organizations that effect legislation.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	English 1B	3
English 1A	3	History 7B	3
History 7A	3	Physics 2A	4
Chemistry 1A	5	Foreign Language	4
Foreign Language	4	English 15B	3
Physical Education I	1/2	Physical Education I	1/2
Total	16	Total	17 1/2

Third Semester	Units	Fourth Semester	Units
Philosophy 1A	3	Philosophy 1B	3
History 1A	3	History 1B	3
Biology 2A	4	Biology 2B	4
Foreign Language	4	Foreign Language	4
Political Science I	3	Political Science 2	3
Physical Education I	1/2	Physical Education I	1/2
Total	17 1/2	Total	17 1/2

## PSYCHOLOGY

### California State College at Long Beach

Psychologists study the behavior of individuals and groups. They may be found teaching in colleges and universities, in counseling individuals, in research, and in administering programs in hospitals, clinics, and research laboratories. Specialists may work with maladjusted people in group therapy and in such fields as social and industrial psychology.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Psychology 1B	3
History 7A	3	Political Science 3	3
English 1A	3	English 1B	3
Chemistry 1A	5	Chemistry 1B	5
Physical Education 3	2	Physical Education 1	1/2
Psychology 1A	3		
Physical Education 1	1/2	Total	14 1/2
Total	17		
Third Semester	Units	Fourth Semester	Units
Sociology 1	3	Sociology 2	3
Philosophy 1A	3	Philosophy 2	3
Art 2 or Music 8	3	Statistics 1	3
Mathematics 7	4	Speech 1	3
Anatomy 1	3	Physiology 1	5
Physical Education 1	1/2	Physical Education 1	1/2
Total	16 1/2	Total	17 1/2

## RECREATION

### California State College at Long Beach

The recreation program is designed to provide an opportunity for the student to complete the lower division general education requirements. Opportunity is further provided the recreation major to gain an understanding of the role of recreation in today's society. The development of broad skills to meet the required competence of the upper division student is encouraged.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	English 1B	3
English 1A	3	Psychology 2	3
Psychology 1A	3	Biology 2B	4
Biology 2A	4	Physical Education 3	2
Music 8	3	Physical Education 5	2
Electives	2	Physical Education 1	1
Physical Education 1	1		
Total	16 1/2	Total	15
Third Semester	Units	Fourth Semester	Units
Speech 1	3	Political Science 3	3
History 7A	3	Sociology 2	3
Sociology 1	3	Theater Arts 24	3
Journalism 1A	3	Art 2	3
Sociology 4	3	Physical Science 1	3
Physical Education 1	1	Physical Education 1	1
Total	16		16

Continued

**Recommended:**

**Physical Education Activities**

Archery, Gymnastics, Tennis, Badminton, Golf, Social Dance, Recreational Games, Body Building, Seasonal Sports.  
Team Sports, Modern Dance, Body Mechanics

**Suggested Electives:**

Geography 1-2

History 1A-1B

Photography 1

Philosophy 1A

**SECRETARIAL PROGRAM**

Employers emphasize that in addition to mastery of stenographic skills, successful secretaries must possess a sound knowledge of English, a broad general education, a high sense of responsibility, good grooming and desirable personality traits. In the program outlined below, the student is advised to enter the stenography class and the typing class which mark the present level of his or her proficiency in these fields.

**SECRETARY - TYPING**

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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Business 11B	3
Business 11A	3	Business 7A	3
Business 3A	3	Business 25D	2
Mathematics 40	3	Home Economics 17	3
Humanities 1A	6	Humanities 1B	6
Physical Education 1 (Modern Dance)	1/2	Physical Education 1 (Body Mechanics)	1/2
		?	
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17 1/2</b>
<b>Third Semester</b>	<b>Units</b>	<b>Fourth Semester</b>	<b>Units</b>
Business 20A	3	Business 20B	3
Business 15A	3	Speech 15	3
Sociology 4	3	Psychology 9	3
Home Economics 5	3	Business 3A	3
Physical Education 3	2	Home Economics 20	3
Physical Education 1	1/2	Physical Education 1	1/2
<b>Total</b>	<b>14 1/2</b>	<b>Total</b>	<b>15 1/2</b>

**SECRETARY - STENOGRAPHY**

This program is designed to provide entry-level employment in a secretarial position requiring a high level of stenographic ability.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Business 25D	2
Business 20A	4	Business	4
Business 15A	3	Home Economics 20	3
Home Economics 17	3	Humanities 1B	6
Humanities 1A	6	Physical Education 1	1/2
Physical Education 1 (Modern Dance)	1/2	(Body Mechanics)	
	<hr/>		<hr/>
Total	17	Total	15 1/2

Third Semester	Units	Fourth Semester	Units
Business 21A	4	Business 21B	4
*Business 12A	3	*Business 12B	3
Business 7A	3	Business 3A	3
Mathematics 40	3	Psychology 9	3
Physical Education 3	2	Sociology 4	3
Physical Education 1	1/2	Physical Education 1	1/2
	<hr/>		<hr/>
Total	15 1/2	Total	16 1/2

\*Elective, if typing performance is demonstrated as Business 12A-12B equivalent.

### SECRETARY - HOME ECONOMICS

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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	*Business 11B	3
*Business 11A	3	Business 25D	2
Home Economics 5	3	Home Economics 20	2
Home Economics 17	3	Sociology 4	3
Humanities 1A	6	Humanities 1B	6
Physical Education 1 (Modern Dance)	1/2	Physical Education 1 (Body Mechanics)	1/2
	<hr/>		<hr/>
Total	16	Total	16 1/2

\*Business 12A-12B can be substituted if eligible.

Third Semester	Units	Fourth Semester	Units
Business 15A	3	Business 30	3
Business 7A	3	Home Economics 23	2
Home Economics 10	2	Psychology 9	3
Art 4A	2	*Business 20B	4
Mathematics 40	3	Physical Education 3	2
*Business 20A	4	Physical Education 1	1/2
Physical Education 1	1/2		
	<hr/>		<hr/>
Total	17 1/2	Total	14 1/2

\*Electives can be Business 12A-12B or Business 21A-21B.

# SOCIAL WELFARE

## Fresno State College

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, medical social work, psychiatric social work, rehabilitative social work, group social work, and community organization work.

College.

First Semester	Units	Second Semester	Units
Orientation	1/2	Sociology 2	3
Sociology I	3	Psychology 1B	3
Psychology 1A	3	Political Science 3	3
History 7A	3	English 1B	3
English 1A	3	Geology 2, 2L	4
Biology 2A	4	Physical Education 1	1/2
Physical Education 1	1/2		
Total	17	Total	16 1/2
Third Semester	Units	Fourth Semester	Units
Philosophy 1A	3	Anthropology 2	3
Speech 1	3	Psychology 2	3
Economics 1A	3	Economics 1B	3
Art 2 or Music 8	3	Sociology 4	3
Geography 1	3	Statistics 1	3
Physical Education 1	1/2	Physical Education 3	2
Total	15 1/2	Physical Education 1	1/2
		Total	17 1/2

Social Welfare 20 and Psychology 66 should be taken at Fresno State

# SOCIOLOGY

## Chico State College

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. 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 nonprofit organizations or are self-employed.



First Semester	Units	Second Semester	Units
Sociology 1	3	Sociology 2	3
History 7A	3	Psychology 1A	3
Orientation 2	1/2	Political Science 3	3
English 1A	3	English 1B	3
Biology 2A	4	Biology 2B	4
Physical Education	2	Physical Education I	1/2
Physical Education I	1/2		
	<hr/>	Total	16 1/2
Total	16		
Third Semester	Units	Fourth Semester	Units
Anthropology 1	3	Anthropology 2	3
History 1A	3	History 1B	3
Speech I	3	Economics 1A	3
Geology 2, 2L	4	English 15A, 30,	3
Art2, Music 8, or	3	Philosophy 1A	
Theater Arts 25		Sociology 4	3
Physical Education I	1/2	Physical Education I	1/2
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Total	16 1/2	Total	15 1/2

## SPEECH

### San Fernando Valley State College

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 Cicero 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.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Speech 2	3
Speech I	3	Sociology 1	3
English 1A	3	English 1B	3
Psychology 1A	3	Political Science 3	3
Art 2 or Music 8	3	Physical Science I	3
History 7A	3	Physical Education I	1/2
Physical Education	1/2		
	<hr/>		
Total	16		15 1/2
Third Semester	Units	Fourth Semester	Units
Speech 5	3	English 15B or 31	3
Philosophy 1A	3	Philosophy 2	3
English 15A or 30	3	Anthropology 2 or	3
History 1A	3	Geography 2	
Biology 2A	4	Economics 1A	3
Physical Education I	1/2	Geology 2 or 2L	4
	<hr/>	Physical Education 3	2
Total	16 1/2	Physical Education I	1/2
		Total	18 1/2

Speech 25, Argumentation, should be taken at S.F.V.S.C.

# THEATER ARTS

## San Fernando Valley State College

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 chroniclers" of our time. But the play also requires a host of supporting personnel, including directors, writers, costume designers, sound and light technicians, scene and theater designers.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	Theater Arts 2B	3
Music 8 or Art 2	3	Speech I	3
Biology 2A	4	English 1B	3
Theater Arts 2A	3	Political Science 3	3
History 7A	3	Biology 2B	4
English 1A	3	Physical Education I	1/2
Physical Education I	1/2		<hr/>
Total	17	Total	16 1/2

Third Semester	Units	Fourth Semester	Units
Theater Arts 21A	1	Theater Arts 25	3
Theater Arts 20A	2	Philosophy 2	3
Theater Arts 24	3	Sociology I	3
Psychology 1A	3	Economics 1A	3
Philosophy 1A	3	Physical Science I	3
History 1A	3	Physical Education 3	2
Physical Education I	1/2	Physical Education I	1/2
	<hr/>		<hr/>
Total	15 1/2	Total	17 1/2

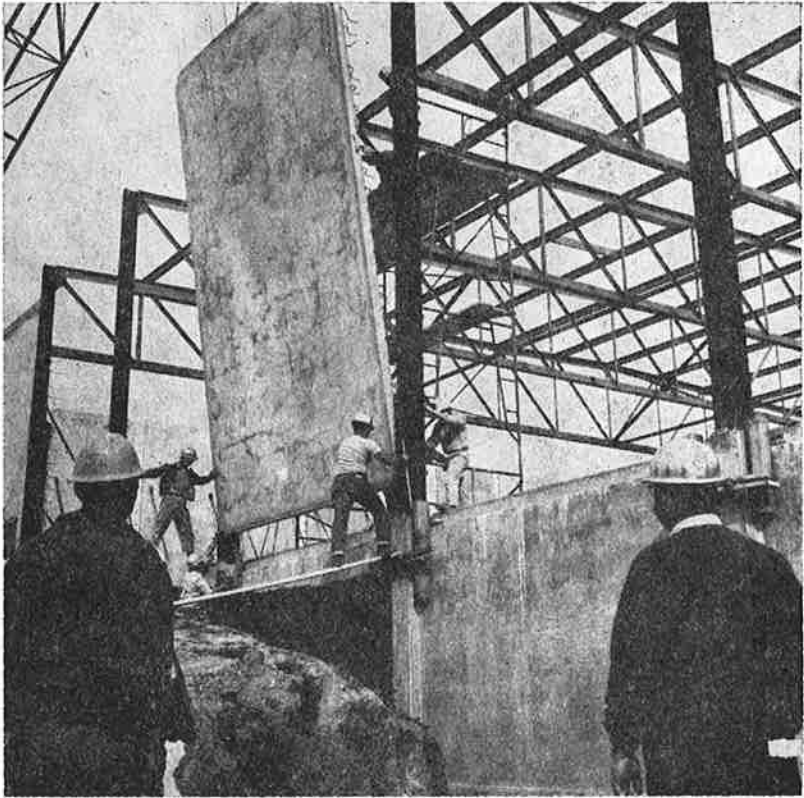
# VETERINARY MEDICINE

## University of California at Davis

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, biomedical research, laboratory animal medicine and drug research are attracting more and more of those trained in veterinary medicine.

First Semester	Units	Second Semester	Units
Orientation 2	1/2	English 1B	3
English 1A	3	Chemistry 1B	5
Chemistry 1A	5	Biology 2B	4
Biology 2A	4	Art 2	3
History 7A	3	Political Science 3	3
Physical Education I	1/2	Physical Education I	1/2
	<hr/>		<hr/>
Total	16	Total	18 1/2

Third Semester	Units	Fourth Semester	Units
Physics 2A	4	Physics 2B	4
Chemistry 8	3	Chemistry 5	3
Animal Husbandry I	3	Psychology 1B	3
Psychology 1A	3	Physical Education I	1/2
Philosophy I	3	Zoology 1A	5
Physical Education I	1/2		
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Total	16 1/2	Total	15 1/2



**PHYSICAL EDUCATION**

## ***Course Descriptions***

## DESCRIPTION OF COURSES

**Year Courses** — Courses requiring a year (two semesters) in which to complete the full offering are designated by number and letter. (Example, History 7A-7B.) 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.

**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.

As defined elsewhere, 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. In certain instances, in order to best serve students in summer session and in evening classes, the hours of instruction in some courses may be reduced and credit reduced proportionately. When an offering is reduced from standard hours and units, the course will be identified in the appropriate class schedule by an "x" following the course number, for example: Bus 20x, He 10x. The standard credit allowed per semester for the course is stated in the description.

**Schedule of Courses** — Courses listed below are offered as a regular part of established curricula or when demand warrants. The current class schedule should be consulted to determine the availability of specific courses.

## ACCOUNTING

### Bus 1A-1B—ACCOUNTING PRINCIPLES

3-3 Units

Prerequisite: Satisfactory math score or completion of a bookkeeping course. Grade of C or better in 1A in order to enter 1B.

2 hours lecture, 3 hours laboratory.

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 and other students with adequate background.

### Bus 2—INTERMEDIATE ACCOUNTING

3 Units

Prerequisite: Grade of C in Bus 1A-1B.

3 hours lecture weekly.

An expansion of the fundamentals learned in Bus 1A-1B with emphasis on alternative procedures and on the theory of accounting.

### Bus 3A-3B—APPLIED ACCOUNTING

3-3 Units

Prerequisite: 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.

Not open to students who have passed Bus 1A.

### Bus 5—COST ACCOUNTING

3 Units

Prerequisite: Grade of C in Bus 1A-1B.

3 hours lecture weekly.

An elementary course in the principles of cost accounting with emphasis on the use of the basic elements of cost accounting in job order and process cost accounting systems; standard costs and their application, accounting for direct costing and spoilage; use of cost accounting data by management and the role of data processing in accounting for such data.

*Not to be offered 1967-68.*

**AGRICULTURE****Ag 2—AGRICULTURAL PROJECTS****1-4 Units**

Prerequisite: Consent of instructor.

3-12 hours laboratory (Hours arranged proportional to number of units).

Planning, development, and execution of individual agriculture production or work experience project under the supervision of a faculty advisor; an organized program to enable the student to gain practical skills and experiences in agriculture.

**Ag 21—SOILS****3 Units**

Prerequisite: None.

2 hours lecture, 3 hours laboratory weekly.

Physical, chemical and biological properties of soils, the factors determining productivity; soil classification, and interpretation and evaluation of soil practices used in agriculture; laboratory work in soil sampling and testing, organic materials and microbiology, alkaline soils and reclamation; use of soil maps, soil and water experiments.

*Not to be offered 1967-68.*

**Ent 1—ECONOMIC ENTOMOLOGY****3 Units**

Prerequisite: None.

2 hours lecture, 3 hours laboratory weekly.

Common insects which attack agricultural crops and stored products; basic taxonomy of the major orders; identification, life cycles, habits, hosts, economic importance, and control of the principle insects in agriculture; identification and valuation of beneficial insects; insect collection required.

*Not to be offered 1967-68.*

**AGRONOMY****Agron 1—INTRODUCTION TO AGRONOMY****3 Units**

Prerequisites: None.

2 hours lecture, 3 hours laboratory weekly.



Plant structures and their functions; crop ecology and basic factors affecting crops and crop production. Identification of crops, seeds and weeds. Weed control in this locality. Seed production including certified seed.

**Agron 2—VEGETABLE CROPS****3 Units**

Prerequisites: Agron 1 or consent of instructor.

2 hours lecture, 3 hours laboratory weekly.

Economic importance, adaptation, cultural practices, marketing, pest control, calendar of operations, cost analysis of the major representative crops of the area. Environmental relationships, moisture, temperature, general weather influence on crops in the locality.

**ANIMAL HUSBANDRY****AH 1—INTRODUCTORY ANIMAL HUSBANDRY****3 Units**

Prerequisites: None

2 hours lecture, 3 hours laboratory weekly

Survey of livestock production in the community, state, nation and world. Study of anatomy and physiology, genetics, nutrition, livestock selection, management, and marketing of the breeds of beef, dairy, swine, sheep and poultry and their products.

**AH 5—BEEF PRODUCTION****3 Units**

Prerequisites: AH 1 or consent of instructor.

2 hours lecture, 3 hours laboratory weekly.

Beef production in the community, state and nation; breeds of beef cattle; selection and judging of beef cattle and management of the breeding herd; feed lot operations; market classes and grades; marketing practices and procedures.

**AH 6—LIVESTOCK HEALTH AND NUTRITION****3 Units**

Prerequisites: AH 1 or consent of instructor.

2 hours lecture, 3 hours laboratory weekly.

Sanitation practices, causes, symptoms, prevention and treatment of common livestock diseases and parasites. Composition of feeds and their uses in animal nutrition, assimilation of feeds, balancing rations. Pasture

## **AGRICULTURE**

### **ANTHROPOLOGY**

and range feeding and feed lot feeding of healthy animals. Management of pastures and feeding in relation to disease and parasites.

*Not to be offered 1967-68.*

## **HORTICULTURE**

### **Hort 10—INTRODUCTION TO HORTICULTURE**

**3 Units**

Prerequisites: Agron 1 or consent of instructor.

2 hours lecture, 3 hours laboratory weekly.

Elementary botany of fruit and nut crops including growth and fruiting habits, varieties, characteristics and adaptations as related to farming practices; environmental factors influencing fruit production operations; pruning and training procedures of local fruit and nut crops. Study of management operations and cultural practices on these fruit and nut crops in the area.

### **Hort 23—LANDSCAPE GARDENING AND MANAGEMENT**

**3 Units**

Prerequisite: None.

2 hours lecture, 3 hours laboratory 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 maintenance problems of landscape properties, with field laboratory in proper care and use of garden equipment.

## **ANTHROPOLOGY**

### **Anth 2—CULTURAL ANTHROPOLOGY**

**3 Units**

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.

## **ANATOMY**

### **An 1—GENERAL HUMAN ANATOMY**

**3 Units**

Prerequisite: Satisfactory score on placement test.

2 hours lecture, 3 hours laboratory weekly.

The functional anatomy of human organs, including the histology and gross anatomy of all the systems.

*Not to be offered 1967-68.*

## **ART**

### **Art 1A-1B—ART HISTORY**

**3-3 Units**

Prerequisite: None.

3 hours lecture weekly.

Survey of the history of art of the western world from prehistoric times to the present; emphasis on techniques of producing art as well as on examination of the key figures in art history.

### **Art 2—ART APPRECIATION**

**3 Units**

Prerequisite: None.

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.

### **Art 4A-4B-4C—COLOR AND DESIGN**

**2-2-2 Units**

Prerequisite: Art 4A for Art 4B, Art 4B for Art 4C.

1 hour lecture, 3 hours studio weekly.

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.

## ART

### Art 12A-12B—DRAWING AND COMPOSITION

2-2 Units

Prerequisite: Art 12A for Art 12B

6 hours studio weekly.

Basic drawing experience stressing graphic representation of objects through a variety of media and techniques; particular emphasis upon the fundamental means of pictorial composition.

### Art 13A-13B—LIFE DRAWING

2-2 Units

Prerequisite: Art 12A for Art 13A; Art 13A for 13B.

6 hours studio weekly.

Drawing the human figure from the live model; emphasis on structure, proportion, form and composition; practice in the use of linear and tonal concepts.

*Not to be offered 1967-68.*

### Art 16A-16B—PAINTING

2-2 Units

Prerequisite: Art 12A-12B, or Art 4A-4B, or consent of instructor; Art 16A for Art 16B.

6 hours studio weekly.

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 uses of color and light; emphasis on technical competence and individual concepts; experimentation with traditional and newer painting materials.

### Art 22—DIRECTED STUDIES IN ART

1-3 Units

Prerequisites: A course in the specific field with a recommending grade and consent of instructor and division chairman.

1-3 hours lecture weekly.

Designed for selected students who are interested in furthering their knowledge of art on an independent study basis. Assigned problems will involve library, studio, and field work.

### Cr 8A-8B—BEGINNING CERAMICS

2-2 Units

Prerequisites: Cr 8A for Cr 8B.

6 hours studio 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.

*Not to be offered 1967-68.*

## BACTERIOLOGY

### Bac 1—GENERAL BACTERIOLOGY AND MICROBIOLOGY 5 Units

Prerequisite: Ch 20 or equivalent.

3 hours lecture, 6 hours laboratory weekly.

Bacteria, algae, fungi, Rickettsiae, viruses and protozoa; emphasis on bacterial morphology, anatomy, staining, classification, metabolism and growth, and effects of physical and chemical agents on bacteria; microbiology of soil, food, milk and water; and the principles of disease transmission, prevention and immunity; independent laboratory experiments.

*Not to be offered 1967-68.*

## BIOLOGY

### Biol 2A—GENERAL BIOLOGY 4 Units

Prerequisite: Satisfactory score on placement test.

3 hours lecture, 3 hours laboratory weekly.

This general course places its emphasis on the cell and the organism, with particular attention to the structure of the vertebrates and man.

### Biol 2B—GENERAL BIOLOGY 4 Units

Prerequisite: Biology 2A; high school or college chemistry is recommended.

3 hours lectures and 3 hours laboratory weekly.

This course places its emphasis on the population and the community with special reference to ecosystems, biotic communities, heredity and evolution.

### Biol 22—DIRECTED STUDIES IN BIOLOGY 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 biology on an independent study basis. Assigned problems will involve library, laboratory, and field work.

**BOTANY**  
**BUSINESS**

**BOTANY**

**Bot 1—GENERAL BOTANY**

**5 Units**

Prerequisite: 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.

*Not to be offered 1967-68.*

**BUSINESS**

**Bus 30—INTRODUCTION TO BUSINESS PRINCIPLES**

**3 Units**

Prerequisite: None.

3 hours lecture weekly.

Purpose, organization and terminology of business, including such topics as investments, insurance, real estate, budgeting and accounting, business law, proprietorship and partnerships, and appropriate forms.

**Bus 31—BUSINESS ORGANIZATION AND MANAGEMENT**

**3 Units**

Prerequisite: None (Bus 30 is recommended).

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.

**Bus 33—BUSINESS LAW**

**3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

Fundamental principles of law as applied to ordinary business relationships; sources of business law; the essential elements of a contract; agency and employment relationships; negotiable instruments; bailments, personal property, and sales of personal property; emphasis on the Uniform Commercial Code.

# CHEMISTRY

## Ch 1A-1B—GENERAL CHEMISTRY

5-5 Units

Prerequisite: Ch 20 or high school chemistry with a grade of C or better, and Math 1 or equivalent; Ch 1A prerequisite to Chem 1B.

3 hours lecture, 2 three hour laboratories weekly.

Fundamental chemical principles and their applications, with particular attention to the theory of solutions, equilibrium, oxidation and reduction with emphasis on chemical calculations; important elements and their compounds together with a systematic study of the theory and techniques of qualitative analysis.

## Ch 5—QUANTITATIVE ANALYSIS

3 Units

Prerequisite: Ch 1A-1B with grade of C or better.

2 hours lecture, 6 hours laboratory weekly.

Fundamental techniques and applications of the principles of volumetric and gravimetric chemical analysis through study of fundamental chemical calculations, equilibrium and equilibrium constants, and gravimetric and volumetric determinations.

*Not to be offered 1967-68.*

## Ch 8—ELEMENTARY ORGANIC CHEMISTRY

3 Units

Prerequisite: Ch 1A-1B with a grade of C or better.

3 hours lecture weekly.

Structure, preparation, chemical and physical properties, and commercial and technical applications of aromatic and aliphatic compounds.

*Not to be offered 1967-68.*

## Ch 9—ORGANIC CHEMISTRY LABORATORY

3 Units

Prerequisite: Ch 8 (or concurrent enrollment).

1 hour lecture, 2 three hour laboratories weekly.

Preparation and identification of the more important organic compounds, with problems and questions concerning preparation and identification of aliphatic and aromatic compounds and experiments in testing for unknowns.

*Not to be offered 1967-68.*

**CHEMISTRY**  
**DATA PROCESSING**

**Ch 21—ELEMENTARY CHEMISTRY**

**4 Units**

Prerequisite: Math 1 or equivalent (or concurrent enrollment).

3 hours lecture, 3 hours laboratory weekly.

Fundamental theories, laws and techniques of inorganic and organic chemistry, together with their more important applications, as a basis for advanced study; drill in chemical formulas, equations and calculations. A fundamental course for those students who have not previously taken a chemistry course or who desire to review their chemistry background.

**DATA PROCESSING**

**DP 1—INTRODUCTION TO DATA PROCESSING**

**3 Units**

Prerequisite: None.

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.

**DP 3—ELECTROMECHANICAL MACHINES**

**4 Units**

Prerequisite: DP 1 or equivalent.

3 hours lecture, 3 hours laboratory weekly.

Basic operation and programming of data processing machines: interpreters, sorters, collators, accounting machines; laboratory experience on equipment.

**DP 4A—COMPUTER PROGRAMMING I**

**3 Units**

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.

*Not to be offered 1967-68.*



**DP 4B—COMPUTER PROGRAMMING II**

**3 Units**

Prerequisite: DP 4A.

2 hours lecture, 3 hours laboratory weekly.

A study of automatic programming systems and their application to the solution of business data processing problems; disk concepts, Fortran and Cobal.

*Not to be offered 1967-68.*

**DP 6—DATA PROCESSING SYSTEMS**

**4 Units**

Prerequisites: DP 1, or consent of instructor.

3 hours lecture; 3 hours laboratory weekly.

Data processing systems and procedures, analysis of various existing business data processing applications, integrated processing principles, total management information, and data systems concepts.

**ECONOMICS**

**Econ 1A-1B—PRINCIPLES OF ECONOMICS**

**3-3 Units**

Prerequisite: Satisfactory score on placement tests; Econ 1A for Econ 1B.

3 hours lecture weekly.

First semester—functioning of a mixed enterprise system, business organizations, labor organization and problems, the economic role of government, 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.

**ENGINEERING**

**Engr 2—ENGINEERING DRAWING AND GRAPHICS**

**2 Units**

Prerequisite: Math 5 or equivalent.

6 hours laboratory weekly.

Theory of orthographic projection, auxiliaries, sections, dimensioning, working drawings, charts, scales; empirical equations, nomographs, graphic calculus and graphic solutions of equations.

**Engr 3—DESCRIPTIVE GEOMETRY****2 Units**

Prerequisite: IT 1, Math 5 or equivalent.

6 hours laboratory weekly.

Study of points, lines and planes, curves and warped surfaces, intersections and development as a basis for more advanced design courses.

**Engr 5A—PLANE SURVEYING****3 Units**

Prerequisite (or concurrent enrollment): Math 5 or equivalent.

2 hours lecture; 3 hours laboratory weekly.

Engineering measurements; three land measurements: horizontal, angular, and elevation; theory of random errors, the probability curve, and the theory of least squares.

*Not to be offered 1967-68.*

**Engr 5B—ENGINEERING SURVEYS****3 Units**

Prerequisite: Engr 5A or consent of instructor.

2 hours lecture; 3 hours laboratory weekly.

Control surveys, topographic surveys using transit-stadia and plane table alidade, horizontal and vertical curves, earthwork, practical astronomy, introduction to photogrammetry.

*Not to be offered 1967-68.*

**Engr 12—ENGINEERING STATICS****3 Units**

Prerequisites: Engr 2, Math 21A-21B.

3 hours lecture weekly.

Force systems and equilibrium conditions with emphasis on engineering problems covering structures, machines, distributed forces and friction, including graphical and algebraic solutions and introduction to the method of virtual work.

*Not to be offered 1967-68.*

**Engr 15—INTRODUCTION TO CIRCUIT ANALYSIS****3 Units**

Prerequisite: Math 21A, Ph 5 (or 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, and steady state sinusoidal analysis.

*Not to be offered 1967-68.*

# ENGINEERING ENGINEERING TECHNOLOGY

## Engr 16—INTRODUCTION TO ELECTRON DEVICES

3 Units

Prerequisite: Math 21A, Physics 5.

3 hours lecture weekly.

An introduction to physical electronics of semiconductor and vacuum devices, characteristics and circuit models of useful electronic devices, analysis of typical amplifying and switching circuits.

*Not to be offered 1967-68.*

## Engr 18—ENGINEERING MATERIALS

3 Units

Prerequisite: Ch 1B, Ph 5.

2 hours lecture; 3 hours laboratory weekly.

Application of basic principles to the selection and use of engineering materials; analysis of the internal structures of materials and the dependence of properties upon these structures; the study of the behavior of materials in service.

*Not to be offered 1967-68.*

## Engr 20—ENGINEERING PREVIEW

1 Unit

Prerequisite: Math 5 (or concurrent enrollment) or equivalent.

2 hours lecture weekly.

A study of the engineering profession, its requirements, opportunities and responsibilities. A preview of the application of the basic sciences to engineering problems through problem solution and instruction in the use of the Log Log Decitrig Slide Rule.

# ENGINEERING TECHNOLOGY

## ET 1—TECHNICAL ORIENTATION

1 Unit

Prerequisite: Math 5 (or concurrent enrollment) or equivalent.

2 hour lecture weekly.

An introductory course concerning the requirements, opportunities and responsibilities of technicians in the various fields of engineering and to provide instruction in the rapid and accurate use of the Log Log Decitrig Slide Rule.

# ENGINEERING TECHNOLOGY

## ET 2—GRAPHICS AND ENGINEERING SKETCHING 2 Units

Prerequisites: IT 1 or equivalent.

6 hours of laboratory weekly.

Advance orthographic projection, auxiliaries, sections, dimensioning, working drawings, charts, scales, perspective drawings and freehand

## ET 10—ELECTROMECHANICAL DRAWING 2 Units

Prerequisite: IT 1 or equivalent.

6 hours laboratory weekly.

Principles of dimensioning, schematics, wiring diagrams, printed cir-

sketching, cuits, electronic components, packaging and logic diagrams, with emphasis on industry and military specifications.

## ET 11—MACHINE DESIGN 2 Units

Prerequisite: IT 1 or equivalent.

6 hours laboratory weekly.

Drafting and design to meet current industrial drafting practice and military specifications; technical analysis, definition of a design, true position tolerancing, fundamentals of graphic mathematics, functional scales, and elementary nomography.

## ET 13—REPRODUCTION OF GRAPHIC MATERIALS 3 Units

Prerequisite: IT 1 or equivalent.

3 hours lecture weekly

Methods, characteristics and specific values of the various industrial processes used in the reproduction of visual materials.

*Not to be offered 1967-68.*

## ET 14—TECHNICAL ILLUSTRATION 2 Units

Prerequisite: IT 1 or equivalent.

6 hours laboratory weekly.

Preparation of technical illustrations to meet the standards of industry; drawings from blueprints, technical orders and freehand sketches; technical aspects of preparing work for reproduction; axonometric and perspective projection.

*Not to be offered 1967-68.*

**ET 16A-16B—CIVIL DRAFTING****2-2 Units**

Prerequisite: IT 1 or equivalent — 16A Prerequisite to 16B.

6 hours laboratory weekly

Computations and procedures peculiar to civil engineering office activities; practice with maps and land descriptions; highway design procedures; water supply and sewer design; quantities and estimates; structures.

*Not to be offered 1967-68.*

**ET 17A—ARCHITECTURAL DRAFTING****3 Units**

Prerequisite: IT 1 or equivalent.

1 hour lecture, 6 hours laboratory weekly.

Designed to train architectural draftsmen to think, read and speak about the problems and ideas of the client, architect, designer, engineer and contractor. To translate these ideas into working drawing of frame construction that will enable the builder to produce the concept of the architect.

**ET 17B—ARCHITECTURAL DRAFTING****2 Units**

Prerequisite: ET 17A or consent of instructor

6 hours laboratory weekly.

Construction techniques and working drawings for masonry, concrete and steel frame structures; emphasis on commercial buildings, field trips to local construction projects as applicable.

**ET 18—DRAFTING PROJECTS****2 Units**

Prerequisites: IT 1 or equivalent and consent of instructor.

6 hours laboratory weekly

Integration of previously acquired knowledge through assignment of projects to design simple machines or sub-assemblies of machines; philosophy and techniques of successful design.

*Not to be offered 1967-68.*

**ET20—DIRECTED WORK EXPERIENCE****1-2 Units**

Prerequisites: None

6-12 hours laboratory weekly

On the job training for students; an introduction to methods, equipment and working conditions existing in specific fields of engineering technology. Work to be evaluated by supervisors and instructors.

## ET 22A—PRINCIPLES OF ELECTRONICS

**4 Units**

Prerequisite: Math 5 or equivalent (or concurrent enrollment); one year of high school electricity or Eln 1A recommended.

3 hours lecture, 3 hours laboratory weekly

Direct current theory, including current, voltage and resistance; work and power; series and parallel circuits; electrical measurements; and the concepts of inductance and capacitance.

## ET 22B—PRINCIPLES OF ELECTRONICS

**4 Units**

Prerequisite: ET 22A

3 hours lecture, 3 hours laboratory weekly

Alternating current theory, including such concepts as reactance, impedance, and resonance; vector algebra; harmonics; and three-phase systems.

## ET 24A—ANALYSIS OF CIRCUITS AND SYSTEMS

**5 Units**

Prerequisite: ET 22B and ET 26

4 hours lecture, 3 hours laboratory weekly

Analysis of circuits relating to feedback amplifiers, sine and non-sinusoidal oscillators; their application to computers, control systems and communications systems.

*Not to be offered 1967-68.*

## ET 24B—PULSE AND DIGITAL CIRCUITS

**5 Units**

Prerequisite: ET 24A

4 hours lecture, 3 hours laboratory weekly

Graphic and analytical evaluation of pulse generators, wave-shaping, timing and time-delaying circuits with application to digital computer systems and electronic instruments.

*Not to be offered 1967-68.*

## ET 26—ELECTRON TUBES AND SEMI-CONDUCTORS

**3 Units**

Prerequisite: ET 22B or Eln 3B (or concurrent enrollment).

2 hours lecture, 3 hours laboratory weekly

Electron devices with mention of circuit application but with no actual circuits presented; analysis of the characteristics and limitations of various types of tubes and semi-conductors leading to an appreciation of selection and application.

**ET 29—ELECTRONIC PROJECTS****2 Units**

Prerequisite: ET 24B or Eln 4B (or concurrent enrollment).

6 hours laboratory weekly

Experience in techniques of laboratory work throughout the construction, testing and reporting of individual electronic projects.

*Not to be offered 1967-68.*

**ET 30—TECHNICAL MATERIALS****3 Units**

Prerequisites: None

3 hours lecture weekly

Introduction to the properties of materials including physical properties, limitation, design considerations, and measurement procedures. Field trips.

*Not to be offered 1967-68.*

**ET 31—MECHANICS****3 Units**

Prerequisite: Math 5 (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 and kinetics in plane motion.

*Not to be offered 1967-68.*

**ET 32—STRENGTH OF MATERIALS****3 Units**

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.

*Not to be offered 1967-68.*

**ET 34—HYDRAULICS****3 Units**

Prerequisite: Math 5 (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.

*Not to be offered 1967-68.*

**ET 36—SOIL MECHANICS****2 Units**

Prerequisite: Math 5 (or concurrent enrollment).

2 hours lecture weekly

Testing procedures and the determination of physical properties of soil and their relationship to the design and construction of engineering structures.

*Not to be offered 1967-68.*

**ET 38—CONSTRUCTION INSPECTION****2 Units**

Prerequisites: ET 30, ET 32, or consent of instructor

2 hours lecture weekly

An introduction to construction codes, procedures, inspection, use of materials and contract records with special emphasis on civil and architectural projects. Field trips.

*Not to be offered 1967-68.*

**ET 42—COMMUNICATIONS ELECTRONICS****3 Units**

Prerequisites: ET 24A, or Eln 4A, or consent of instructor.

2 hours lecture, 3 hours laboratory weekly

This course continues and expands the study of electronics and circuits begun in earlier courses. Emphasis is placed on preparing the student to obtain a commercial radio operator's license. Topics include amplifiers, oscillators, modulator principles, principles of receivers, and radio transmitters, propagation of radio waves, fundamentals of antennas and micro-wave systems.

*Not to be offered 1967-68.*

**ET 44—AUTOMATIC CONTROLS****3 Units**

Prerequisites: ET 24A, Eln 4A, or consent of instructor

2 hours lecture, 3 hours laboratory weekly

An introduction to basic automatic controls. This course includes power inversion and control, photoelectric and time control of switches, motor controls, and basic open and closed loop servomechanisms.

*Not to be offered 1967-68.*

**ET 46—COMPUTER FUNDAMENTALS****4 Units**

Prerequisites: ET 24B, Eln 4B, or consent of instructor

3 hours lecture, 3 hours laboratory weekly

A study of analog and digital computers. Operational amplifiers and simulation are covered in the study of analog computers. Elements of programming, number systems, binary arithmetic, Boolean algebra, computer circuits, computer control and computer arithmetic are covered in the study of digital computers.

*Not to be offered 1967-68.*



## INDUSTRIAL TECHNOLOGY

**Eln 1—FUNDAMENTALS OF ELECTRONICS****4 Units**

Prerequisite: None

3 hours lecture, 3 hours laboratory weekly

Direct and alternating current fundamentals; series, parallel and complex circuits; magnetism and electromagnetism; such electrical phenomena as capacitance, inductance, reactance, impedance, and resonance; and vacuum tube and solid state fundamentals.

**Eln 3A—APPLIED ELECTRONICS I****3 Units**Prerequisite: Eln 1 and Math 1 or equivalent.  
recommended

2 hours lecture; 3 hours laboratory weekly

Direct current theory, including such topics as electronic units, atomic structure, series and parallel circuits, magnetism and measurements.

**Eln 3B—APPLIED ELECTRONICS II****3 Units**

Prerequisite: Eln 3A

2 hours lecture, 3 hours laboratory weekly

A continuation of Eln 3A with particular emphasis on alternating current principles; inductance and capacitance, reactance and AC measurements; transformers, polyphase AC and pulse-shaping circuits.

**Eln 4A—APPLIED ELECTRONICS III****5 Units**

Prerequisite: Eln 3B and ET 26

3 hours lecture, 6 hours laboratory weekly

Industrial application of semiconductor and vacuum tube circuits, amplifier circuits, feedback amplifiers and oscillators and non-sinusoidal oscillator circuits; laboratory emphasizes practical trouble shooting of the various circuits studied.

*Not to be offered 1967-68.***Eln 4B—APPLIED ELECTRONICS IV****5 Units**

Prerequisite: Eln 4A

3 hours lecture, 6 hours laboratory weekly

Graphic and analytical evaluation of pulse generators, wave-shaping, time and time-delaying circuits, with industrial applications; laboratory emphasizes practical trouble shooting of the various circuits studied.

*Not to be offered 1967-68.*

# **INDUSTRIAL TECHNOLOGY ENGLISH**

## **IT 1—MECHANICAL DRAFTING**

**3 Units**

Prerequisite: None

2 hours lecture, 3 hours laboratory

Lettering and the care and use of drafting equipment and instruments; theory of projection, pictorial drawings, sketches and working drawings.

A prerequisite to all drafting and design courses; equivalent to one year of high school drawing.

## **IT 2A-2B—BLUEPRINT READING**

**3-3 Units**

Prerequisite: IT 1 or equivalent

3 hours lecture weekly

The interpretation of mechanical drawings typical of the field of metal workings; theory of common types of projections, dimensioning principles, and machine standards; application by creative sketching and by interpretation of blueprints; second semester, emphasis on the various technical fields.

# **ENGLISH**

## **Engl 1A—COLLEGE COMPOSITION AND LITERATURE**

**3 Units**

Prerequisite: Satisfactory score on the English placement test, or grade of B or better in Engl 2, or recommendation of instructor in Humanities program.

3 hours lecture weekly.

Training in expository writing supplemented by critical reading; practice in analyzing short essays and in summarizing reading selections accurately; writing full-length themes, including one investigative paper involving library and research techniques.

## **Engl 1B—COLLEGE COMPOSITION AND LITERATURE**

**3 Units**

Prerequisite: Engl 1A

3 hours lecture weekly.

Critical reading and analysis of the types of modern literature: the novel, the short story, poetry, and drama; further training in developing composition skills and in improving literary judgment.

## **Engl 2—PREPARATORY ENGLISH**

**3 Units**

Prerequisite: Satisfactory score on English placement test.

3 hours lecture weekly.

Required of all transfer students whose English placement tests show need for further study of English fundamentals; emphasis on English grammar, spelling, vocabulary building, sentence structure, and diction; frequent practice in writing short themes and in reading and analyzing selected essays.

**Engl 10—CREATIVE WRITING****3 Units**

Prerequisite: Engl 1A and consent of instructor.

3 hours lecture weekly.

A study of the literary forms—the essay, short story, poetry, and drama—presented from the standpoint of critical background and theory for each form; practice in writing original works; discussion and analysis of students' writings.

**Engl 15A—SURVEY OF ENGLISH LITERATURE****3 Units**

Prerequisite: Engl 1A-1B as required by transfer institution.

3 hours lecture weekly.

English literature in its cultural framework from Angle-Saxon times to the Romantic Period.

**Engl 15B—SURVEY OF ENGLISH LITERATURE****3 Units**

Prerequisite: Engl 1A-1B as required by transfer institution.

3 hours lecture weekly.

English literature in its cultural framework from the rise of Romanticism to the present.

**Engl 17—SHAKESPEARE****3 Units**

Prerequisite: Engl 1A.

3 hours lecture weekly.

A survey of twelve plays, including romantic comedies, chronicles, tragedies, "dark" comedies, and romances; lectures, critical papers, and class discussions.

**Engl 30—MASTERPIECES OF WORLD LITERATURE****3 Units**

Prerequisite: Eligibility for Engl 1A.

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.

**Engl 31—MASTERPIECES OF WORLD LITERATURE****3 Units**

Prerequisite: Engl 1A.

3 hours lecture weekly.

A survey of major literature from the Renaissance to the present, including such authors as Locke, Molière, Rousseau, Goethe, Emerson, Tolstoi, Ibsen, and Mann.

## ENGLISH

### FIRE SCIENCE

#### Engl 35A—SURVEY OF AMERICAN LITERATURE 3 Units

Prerequisite: Engl 1A.

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.

*Not to be offered 1967-68.*

#### Engl 35B—SURVEY OF AMERICAN LITERATURE 3 Units

Prerequisite: Engl 1A.

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.

*Not to be offered 1967-68.*

## FIRE SCIENCE

#### FSc 90—INTRODUCTION TO FIRE PROTECTION 3 Units

Prerequisite: 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.

*Not to be offered 1967-68.*

#### FSc 91—INTRODUCTION TO FIRE SUPPRESSION 3 Units

Prerequisite: None.

3 hours lecture weekly.

Characteristics and 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.

*Not to be offered 1967-68.*

#### FSc 92—FUNDAMENTALS OF FIRE PREVENTION 3 Units

Prerequisite: 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**

Prerequisite: 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.

*Not to be offered 1967-68.*

**FSc 94—HAZARDOUS MATERIALS I** **3 Units**

Prerequisite: 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.

*Not to be offered 1967-68.*

**FSc 95—FIRE PROTECTION EQUIPMENT AND SYSTEMS** **2 Units**

Prerequisite: FSc 90 and 91, or consent of instructor.

2 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** **3 Units**

Prerequisite: FSc 90 and 91, or consent of instructor.

3 hours lecture weekly.

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 problem; underwriters requirements for pumps.

*Not to be offered 1967-68.*

# FIRE SCIENCE

## **FSc 98—BUILDING CONSTRUCTION FOR FIRE PROTECTION 2 Units**

Prerequisite: FSc 90 and 91, or consent of instructor.

2 hours lecture weekly.

Fundamental building construction and design; fire protection features; special considerations.

*Not to be offered 1967-68.*

## **FSc 99—FIRE COMPANY ORGANIZATION AND PROCEDURE 3 Units**

Prerequisite: FSc 90 and 91, or consent of instructor.

3 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.

*Not to be offered 1967-68.*

## **FSc 100—FIRE APPARATUS AND EQUIPMENT 3 Units**

Prerequisite: FSc 90 and 91, or consent of instructor.

3 hours lecture weekly.

Driving laws; driving technique; construction and operation of pumping engines, ladder trucks, aerial platforms, specialized equipment; apparatus maintenance.

*Not to be offered 1967-68.*

## **FSc 101—RESCUE PRACTICES 3 Units**

Prerequisite: FSc 90 and 91, or consent of instructor.

3 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 3 Units**

Prerequisite: FSc 90, 91 and 94, or consent of instructor.

3 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.

*Not to be offered 1967-68.*

**FSc 103—FIRE INVESTIGATION I**

**3 Units**

Prerequisite: FSc 90 and 91, or consent of instructor.

3 hours lecture weekly.

Introduction to arson and incendiaryism, arson laws, and types of incendiary fires; methods of determining fire cause, cause, recognizing and preserving evidence, interviewing and detaining witnesses; procedures in handling juveniles; court procedure and giving court testimony.

*Not to be offered 1967-68.*

**FOOD SERVICES**

**FS 91—CAFETERIA FOOD SERVICE**

**2 Units**

Prerequisite: None.

6 hours laboratory weekly.

This course is designed to provide occupational training to individuals working in cafeterias, restaurants, and similar types of food service establishments. In particular, emphasis will be placed on training in marketable job skills as head waiter, matre d', cook, buyer, or similar restaurant and cafeteria fields.

**FS 92—BEGINNING MENU PLANNING**

**1 Unit**

Prerequisite: None.

1 hour lecture weekly.

This course examines the basic principles of menu making. Consideration is given to the beginning phases of menu pricing, merchandising, and control. Factors affecting the planning of a menu will be discussed, including type of operation, season of the year, clientele, equipment, personnel available, and principles of nutrition.

**FS 93—ADVANCED MENU PLANNING**

**1 Unit**

Prerequisite: FS 92.

1 hour lecture weekly.

A course designed to provide 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.

**FS 94—FOOD PURCHASING**

**1 Unit**

Prerequisite: None.

3 hours laboratory weekly.

This course provides training in the duties, organization, and policies of the purchasing function in a food service 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. Lab experience is provided in the selection and ordering of food for a food establishment.

## **FOOD SERVICES**

### **FRENCH**

#### **FS 95—QUANTITY FOOD PREPARATION**

**2 Units**

Prerequisite: None.

6 hours laboratory weekly.

This course provides for training in the proper handling of kitchen tools and equipment, experience in preparing meals in a food service establishment, analysis of menu planning, budgeting, and food specifications.

#### **FS 96—ADVANCED MENU PLANNING**

**1 Unit**

Prerequisite: FS 92 or consent of instructor.

1 hour lecture weekly.

The advanced phases of menu pricing, merchandising, and controls are provided in this course. In particular, emphasis is on special food service, menus involved in catered or mass feeding, banquets, weddings, and similar large gatherings.

## **FRENCH**

#### **Fr 1A-1B—ELEMENTARY FRENCH**

**4-4 Units**

Prerequisite: For Fr 1A, consent of counselor; for Fr 1B, Fr 1A or 2 years of high school French with grades of C or better.

4 hours lecture, 1 hour laboratory weekly.

Training in speaking, reading, writing, and hearing French; emphasis on pronunciation, forms, sentence structure, translation, and vocabulary for the purpose of understanding the essential structure of the language; extensive use of the language laboratory. All students will be expected to spend an additional hour per week of study in the language laboratory.

#### **Fr 2A-2B—INTERMEDIATE FRENCH**

**4-4 Units**

Prerequisite: For Fr 2A, Fr 1B or 3 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 fluency.

4 hours lecture, 1 hour laboratory weekly.

Further study of basic grammar and composition; 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 per week of study in the language laboratory.



## **GEOGRAPHY**

### **Geog 2—ELEMENTS OF CULTURAL GEOGRAPHY**

**3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

Introduction to the broad field of geography—its objectives, principal divisions, basic principles, and applications 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.

### **Geog 22—DIRECTED STUDIES IN GEOGRAPHY**

**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 geography on an independent study basis. Assigned problems will involve library, laboratory, and field work.

## **GEOLOGY**

### **Geol 2—PHYSICAL GEOLOGY**

**3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

Materials and structure of the earth; origin and development of landforms; interpretation of topographic geologic maps. One field trip required.

### **Geol 2L—PHYSICAL GEOLOGY LABORATORY**

**1 Unit**

Prerequisite: None. Geol 2 is recommended.

3 hours laboratory weekly.

Identification of rocks and minerals; reading and interpretation of topographic aerial and geologic maps; study of earth structures and geomorphology by means of models and block diagrams; field trips in the local area; supplements Geol 2.

## **GEOLOGY**

### **HISTORY**

#### **Geol 3—HISTORICAL GEOLOGY**

**3 Units**

Prerequisite: Geol 2.

3 hours lecture weekly.

Geologic history of the earth; evolution of its continents, oceans, and major landforms; development of plant and animal life as revealed in the fossil record. One field trip required.

*Not to be offered 1967-68.*

## **GERMAN**

#### **Ger 1A-1B—ELEMENTARY GERMAN**

**4-4 Units**

Prerequisite: For Ger 1A, consent of counselor; for Ger 1B, Ger 1A or 2 years of high school German or an equivalent fluency.

4 hours lecture, 1 hour laboratory weekly.

Training in pronunciation, comprehension, basic conversation, elementary principles of grammar, reading of prose, and simple composition; progress in oral-aural techniques emphasized throughout the course, supplemented by use of audio-lingual tapes in language laboratory; reading and writing stressed in latter part of course. All students will be expected to spend an additional hour per week of study in the language laboratory.

#### **Ger 2A-2B—INTERMEDIATE GERMAN**

**4-4 Units**

Prerequisite: For Ger 2A, Ger 1B or 3 years of high school German with grades of C or better or equivalent fluency; for Ger 2B, Ger 2A or 4 years of high school German.

4 hours lecture, 1 hour laboratory weekly.

Intensive review of grammar; emphasis on expansion of listening and reading comprehension through hearing and reading samples of German literature, i.e., short stories, essays, poetry, and novels; further development of oral and written fluency through class discussion, individual speeches, and written reports. All students will be expected to spend an additional hour per week of study in the language laboratory.

## **HISTORY**

#### **Hist 1A-1B—AN INTRODUCTION TO WESTERN CIVILIZATION**

**3-3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

A survey of important events and developments in western civilization from prehistory to recent times; readings and discussions on important ideas, institutions, and contributions.

**Hist 5—UNITED STATES HISTORY****3 Units**

Prerequisite: 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 interpretive 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.

**Hist 7A-7B—SOCIAL & POLITICAL HISTORY  
OF THE UNITED STATES****3-3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

First semester—English colonization in North America, the American Revolutionary experience, emergence of the new nation, Manifest Destiny, the sectional struggle and Civil War; second semester—political and social adjustment following the Civil War, growth of the West, emergence of America as an industrial and world power, Progressivism, developments of the Twenties, the 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.

**Hist 8—HISTORY OF CALIFORNIA****3 Units**

Prerequisite: 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.

**Hist 15A-15B—INTRODUCTION TO THE HISTORY OF ASIA** 3-3 Units

Prerequisite: 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.

## **HISTORY**

## **HOME ECONOMICS**

### **Hist 22—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.

## **HOME ECONOMICS**

### **HE 5—HOME FURNISHINGS**

**3 Units**

Prerequisite: None — Art 4A is recommended.

2 hours lecture, 3 hours laboratory weekly.

Principles and elements of design as applied to the furnishings of the home; selection and arrangement of furniture, draperies, carpeting and accessories.

### **HE 10—NUTRITION**

**2 Units**

Prerequisite: None.

2 hours lecture weekly.

Basic nutritional needs of children and adults through a study of the principles of human nutrition as related to health and types of diets.

### **HE 17—DRESS SELECTION AND TEXTILES**

**3 Units**

Prerequisite: None.

2 hours lecture, 3 hours laboratory weekly.

Elements of design as applied to dress, wardrobe planning and buying principles; study of today's fibers, fabrics, finishes.

### **HE 20—HOME MANAGEMENT**

**2 Units**

Prerequisite: None.

1 hour lecture, 3 hours laboratory weekly.

Principles of beneficial use of family resources, such as time, energy, money and material goods.

### **HE 23—CHILD CARE AND DEVELOPMENT**

**2 Units**

Prerequisite: None.

1 hour lecture, 3 hours laboratory weekly.

The social, emotional, and physical development of the normal child in relation to the home; class discussion and observation in a child development laboratory situation and day nursery.

## **JOURNALISM**

### **Jour 1A-1B—NEWS REPORTING AND WRITING**

**3-3 Units**

Prerequisite: Eligibility for Engl 2.

2 hours lecture, 3 hours laboratory weekly.

Principles and techniques of newspaper reporting and writing; practical application in journalistic composition, make-up, and style by writing features, interviews, news and sports stories; laboratory experience provided by the college weekly newspaper.

### **Jour 2A-2B—ADVANCED NEWS REPORTING AND EDITING** 3-3 Units

Prerequisite: Jour 1A-1B or consent of instructor.

2 hours lecture, 3 hours laboratory weekly.

Instruction in newspaper editorial practice through publication of the college weekly newspaper and other student publications; staff work supplemented by lectures, field trips, and practical experience.

*Not to be offered 1967-68.*

### **Jour 3A-3B—YEARBOOK PRODUCTION**

**2-2 Units**

Prerequisite: Eligibility for Engl 2.

1 hour lecture, 3 hours laboratory weekly.

Practical experience in all facets of yearbook production, including letting of contracts, selection of theme and type styles, planning of copy and photography for layouts, writing of articles, editing, proofreading, and preparing copy for printers of college yearbook.

## **LAW ENFORCEMENT**

### **LE 1—INTRODUCTION TO LAW ENFORCEMENT**

**3 Units**

Prerequisite: None.

3 hours lecture weekly.

The philosophy and history of law enforcement; overview of crime and police problems; organization and jurisdiction of local, state, and federal law enforcement agencies; survey of professional career opportunities and qualifications required.

# LAW ENFORCEMENT

## LE 4A—CRIMINAL LAW

3 Units

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.

## LE 8—CRIMINAL EVIDENCE

3 Units

Prerequisite: LE 1 or LE 4A.

3 hours lecture weekly.

The kinds and degrees of evidence and the rules governing the admissibility of evidence in court.

## LE 9A—FIREARMS

1 Unit

Prerequisite: LE 4A 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.

*Not to be offered 1967-68.*

## LE 10A—PATROL PROCEDURES

3 Units

Prerequisite: LE 4A or consent of instructor.

3 hours lecture weekly.

Responsibilities, techniques, and methods of police patrol.

## LE 10B—CRIMINAL INVESTIGATION

3 Units

Prerequisite: LE 8 and 15 or consent of instructor.

3 hours lecture weekly.

Fundamentals of investigation; crime scene search and recording; collection and preservation of physical evidence; scientific aids; modus operandi; sources of information; interviews and interrogation; follow-up and case preparation.

**LE 12—DEFENSIVE TACTICS****½ Unit**

Prerequisite: LE 8, 10A and 15 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 I requirement for Law Enforcement majors.

*Not to be offered 1967-68.*

**LE 13—TRAFFIC CONTROL AND INVESTIGATION****3 Units**

Prerequisite: LE 8, 10A and 15 or consent of instructor.

3 hours lecture weekly.

Traffic law enforcement, regulation, and control; fundamentals of traffic accident investigation; California Vehicle Code.

*Not to be offered 1967-68.*

**LE 14—JUVENILE PROCEDURE****3 Units**

Prerequisite: LE 8, 10A and 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.

**LE 15—ADMINISTRATION OF JUSTICE****3 Units**

Prerequisite: 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.

**LEADERSHIP****Ldr IA-1B—PRINCIPLES OF LEADERSHIP****1-1 Units**

Prerequisites: None.

1 hour lecture, 1 hour practicum weekly.

The identification of effective leadership and its development; leadership as it relates to the rights and responsibilities of the individual; effective leadership through the understanding of group dynamics.

## **HUMANITIES**

### **Hum IA-IB—MAN IN SOCIETY**

**6-6 Units**

Prerequisites: Satisfactory score on placement test.

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. The 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 54 hours of laboratory work per semester consisting of plays, lectures, films, and political and social events.

Humanities IA-IB fulfills the A.A. degree graduation requirements in American Institutions, Fine Arts, and English Composition. To satisfy the graduation requirements for the A.A. degree the student must complete an additional 2 units in the social sciences.

Students planning on transferring to four-year institutions should consider traditional general education courses.

## **MARKETING - MERCHANDISING**

### **Bus 35—SALESMANSHIP**

**3 Units**

Prerequisite: None.

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.

### **Bus 36—RETAIL MERCHANDISING**

**3 Units**

Prerequisite: None.

2 hours lecture and 3 hours laboratory weekly.

Merchandise control and budgeting; location, leasing, equipment; advertising; discount stores; shifts in consumption patterns; credits and collections; and store services.



**Bus 37—MARKETING**

**3 Units**

Prerequisite: Bus 30 or Bus 31 (or concurrent enrollment).

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.

**MATHEMATICS**

**Math 1—ELEMENTARY ALGEBRA**

**3 Units**

Prerequisite: Satisfactory score on placement test.

5 hours lecture weekly.

Operations with signed numbers, linear equations, factoring, graphing, simultaneous equations, radical and exponential notation and quadratics; prerequisite to plane geometry and intermediate algebra.

**Math 2—PLANE GEOMETRY**

**3 Units**

Prerequisite: Math 1 with grade of C or better or equivalent.

5 hours lecture weekly.

Sets, real numbers, lines and planes, triangles, congruence, proof, geometric inequalities, parallel and perpendicular lines, polygons, similarity, circles, locus, construction and mensuration.

**Math 5—PLANE TRIGONOMETRY**

**3 Units**

Prerequisite: Math 7 and Math 2 with grades of C or better, or equivalent.

3 hours lecture weekly.

The basic trigonometric functions, their definitions, relationships, and uses; triangle solution, identities, radians, trigonometric equations, inverse functions.

# MATHEMATICS

## Math 7—INTERMEDIATE AND COLLEGE ALGEBRA

4 Units

Prerequisites: Math 1 or equivalent with a grade of C or better, taken within the preceding 3 years.

4 hours lecture per week.

Real number system and basic laws of algebra, advanced factoring, rational algebraic operations, solution of equation, exponents and radicals, functional notation and curve plotting, quadratic equations, theory of equations, determinants, complex numbers, exponential and logarithmic functions, sequences and series, and the binomial expansion.

## Math 9—FUNDAMENTALS OF MATHEMATICS

3 Units

Prerequisite: None.

3 hours lecture weekly.

Review of the basic mathematical skills and fundamental operations as applied to integers, common and decimal fractions, and percentage; emphasis on the understanding of arithmetical and mathematical processes; introduction to algebra and the use of formulas.

## Math 18—COMPUTER PROGRAMMING - FORTRAN

2 Units

Prerequisites: Math 7 or equivalent.

2 hours lecture, 1 hour by arrangement.

Familiarization with basic digital computer programming concepts. Designed to introduce science, engineering and mathematics students to the computer in problem solving, emphasizing the use of Fortran language.

## Math 21A-21B—CALCULUS WITH ANALYTIC GEOMETRY I, II

4-4 Units

Prerequisite: Two years of high school algebra and trigonometry or Math 7 and Math 5 with a grade of C or better; Math 21A for Math 21B.

4 hours lecture weekly.

Elements of analytic geometry and calculus with applications; inequalities, functions, limits and continuity; rectangular coordinate system, points, lines, locus, differentiation and integration of algebraic and transcendental functions with applications; vectors in a plane, conic sections, parametric equations, and polar coordinates.

**Math 22A-22B—CALCULUS WITH ANALYTIC GEOMETRY III, IV**

**4-4 Units**

Prerequisite: Math 21B with a grade of C or better; Math 22A for Math 22B.

4 hours lecture weekly.

Solid analytic geometry, vectors in three dimensions, infinite series, Fourier series, partial differentiation, multiple integration, linear algebra, vector spaces, eigenvalue problems, implicit function theorems, vector field theory; Green's and Stoke's theorems, ordinary differential equations, series solutions of differential equations.

*Not to be offered 1967-68.*

**Math 30A-30B-30C—TECHNICAL MATHEMATICS**

**3-3-3 Units**

Prerequisite: Math 1 or equivalent; Math 30A for Math 30B, Math 30B for Math 30C.

3 hours lecture weekly.

Applied mathematics for work in the industrial-technical field; geometry, algebra through quadratic equations, logarithms, slide rule, mensuration, trigonometry through the solution of the oblique triangle, vectors, forces, machines, center of gravity, and friction, with applications to shop problems, and applications of differential and integral calculus to engineering problems.

**Math 40—BUSINESS MATHEMATICS**

**3 Units**

Prerequisites: None. Math 9 recommended for students deficient in arithmetic skills.

3 hours of lecture per week.

A review and application to business problems of fundamental arithmetic processes, fractions, decimals, percentages, and problem solving. Application of problems involving fractions, decimals, percentage and problem solving in the areas of mark-up, discounts, interest, installment debt, and other business practices.

**Math 45—SLIDE RULE**

**1 Unit**

Prerequisites: Math 5 or equivalent.

1 hour lecture per week.

Use of all 33 scales of a Log Log Decitrig Slide Rule; mathematical principles involved in the construction and use of the various scales.

# MUSIC

## MUSIC

### Mus 1—FUNDAMENTALS OF MUSIC

3 Units

Prerequisite: None.

3 hours lecture weekly.

Writing of scales, intervals, chords, key signatures; sight singing of elementary songs; playing of simple instruments.

*Not to be offered 1967-68.*

### Mus 2A-2B-2C-2D—THEORY

4-4-4-4 Units

Prerequisites: Music I or equivalent.

4 hours lecture weekly.

A study of music fundamentals, function of scales, study of chords and contrapuntal techniques as follows: 2A, intervals, rhythms, scales, triads, 4-part harmonization of a given part, and modulation; 2B, the figured base, non-harmonic tones, the dominant 7th and diminished 7ths; 2C, 9th chords, non-dominant harmonics, 11th and 13th chords and other chromatic chords such as the Neapolitan 6th, augmented 6th and augmented 5th; 2D, two-voice writing and analysis of representative contrapuntal works in two or more voices; modal counterpoint, culminating motet. Students may enter that section of the course for which their technical background has prepared them, as determined by their instructor. The courses must be taken in sequence.

### Mus 8—MUSIC APPRECIATION

3 Units

Prerequisite: 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.

### Mus 9A-9B—MUSIC HISTORY AND LITERATURE

3-3 Units

Prerequisite: None.

3 hours lecture weekly.

Music history and literature of Western civilization; survey of musical styles, forms, and composers from ancient times to the present.

Primarily for music majors but open to all students with adequate musical background.

*Not to be offered 1967-68.*

**Mus 10—A CAPELLA CHOIR****2 Units**

Prerequisite: None.

1 hour lecture, 3 hours rehearsal weekly.

Choral singing for men and women. The choir participates in the musical events of the college and community.

Course may be repeated for credit not in excess of four semesters.

**Mus 12—VOCAL ENSEMBLE****1 Unit**

Prerequisite: Admission by audition or consent of instructor.

3 hours rehearsal weekly.

A select group of mixed singers will study and perform music in small groups, i.e., trios, quartets, sextettes, and madrigals; public performance required.

Course may be repeated for credit not in excess of four semesters.

**Mus 13—VOICE****2 Units**

Prerequisite: None.

1 hour lecture, 3 hours rehearsal weekly.

Designed for the serious vocal student interested in building classic repertoire in early Italian, English, French, and German songs; vocal exercises and correction of individual vocal problems.

*Not to be offered 1967-68.*

**Mus 15—ORCHESTRA****1 Unit**

Prerequisite: Consent of instructor.

3 hours rehearsal weekly.

Preparation and performance of orchestral repertoire.

May be repeated for credit not in excess of four semesters.

**Mus 18—BAND****1 Unit**

Prerequisite: Skill on a band instrument satisfactory to instructor.

3 hours rehearsal weekly.

Rehearsal and performance of representative band literature in support of special events and college activities.

May be repeated for credit not in excess of four semesters.

# MUSIC

## Mus 21—INSTRUMENTAL ENSEMBLE

1 Unit

Prerequisite: Consent of instructor.

3 hours rehearsal weekly.

Development of instrumental groups of woodwind, brass and strings to perform publicly; emphasis on balance, dynamics, phrasing and interpretation.

May be repeated for credit not in excess of four semesters.

## Mus 24A—PIANO

2 Units

Prerequisite: None.

1 hour lecture, 3 hours rehearsal weekly.

Fundamentals of piano playing; note reading, finger drills, scales and simple piano literature.

## Mus 24B—PIANO

2 Units

Prerequisites. Mus 24A or equivalent.

1 hour lecture, 3 hours rehearsal weekly.

Piano studies and techniques for steps two and three; continuation of scales and keyboard techniques.

## Mus 24C—PIANO

2 Units

Prerequisite: Mus 24A-24B or equivalent.

1 hour lecture, 3 hours rehearsal weekly.

Piano studies and literature for students of fourth and fifth steps; scales and keyboard techniques.

*Not to be offered 1967-68.*

## Mus 24D—PIANO

2 Units

Prerequisite: Mus 24C or ability to play music of the third step.

1 hour lecture, 3 hours rehearsal weekly.

Emphasis on keyboard harmony and technique; harmonization of melodies with different style accompaniments, transposition, improvisation of various forms, modulation, playing by ear, scales, chords, reading choral scores.

*Not to be offered 1967-68.*

## **ORIENTATION**

### **Orient 2—INTRODUCTION TO COLLEGE**

**½ Unit**

Required for all entering freshmen.

9 hours lecture per semester.

Introduction to college; development of study habits and skills necessary for college work; review of personal, vocational and educational requirements of various occupations; vocational testing and interpretation.

## **PHILOSOPHY**

### **Phil 1A-1B—INTRODUCTION TO PHILOSOPHY**

**3-3 Units**

Prerequisite: Satisfactory score on placement test; Phil 1A for 1B.

3 hours lecture weekly.

Nature and uses of philosophy; possible sources, nature, and criteria of man's knowledge; examination of man's place in the universe, concepts of the self, the mind, and man's freedom; insights of the several types or schools of philosophy on knowledge, reality, and value. Phil 1B concentrates on the realm of value, its nature and expression in ethics, aesthetics, religion, and social philosophy.

### **Phil 2—INTRODUCTION TO LOGIC**

**3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours of lecture per week.

Elementary thought processes, both deductive and inductive; emphasis on definition, verification, validity, forms of argument and of fallacious reasoning; application of various areas of inquiry.

### **Phil 3—COMPARATIVE RELIGIONS**

**3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

Survey of the major religions of the world as to their origin and development, themes, beliefs and values; the meaning of religion among the ancients and primitive societies; wide reading and written report required; emphasis on the development of both understanding and tolerance of various religions.

## PHILOSOPHY

### PHYSICAL EDUCATION

#### Phil 22—DIRECTED STUDIES IN PHILOSOPHY

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 philosophy on an independent study basis. Assigned problems will involve library and field work.

## PHOTOGRAPHY

#### Phot 1—BEGINNING PHOTOGRAPHY

2 Units

Prerequisite: None.

6 hours laboratory weekly.

A beginning course in photographic theory and practice. Emphasis on photography as a means of creative expression, including a study of the basic principles of camera operation, exposure, developing, and printing.

#### Phot 4—ADVANCED PHOTOGRAPHY

2 Units

Prerequisite: Phot 1 or equivalent.

6 hours laboratory weekly.

An extension of the techniques learned in Phot 1, with further study of equipment and methods; emphasis on composition and experimental approaches to design elements and principles.

*Not to be offered 1967-68.*

## PHYSICAL EDUCATION

Enrollment Regulations — To fulfill the legal requirements in physical education, a full-time student (carrying eight units or more) must be enrolled in a physical education class for a minimum of two class hours per week of each semester in which he is in attendance, until the graduation requirement is met. A student may be legally exempted from the physical education requirement only for physical disability or for age, if he has attained the 21st birthday. Students who qualify for and desire exemption must file formal petition with the Dean of Students. Students who fail to register for PE, or who register and fail to attend, are subject to a reduction in load to 8 units or less.

Students who desire to take more than one physical education class



are limited to two sections per semester. They may earn more than one-half credit per semester in physical education, but may apply only one-half unit of credit per semester towards the fulfillment of graduation requirements.

Standardized uniforms are required for both men's and women's activity classes. They may be purchased in the student store.

Repetition For Credit — In order that students may secure instruction in a variety of skills, the number of times a physical education activity may be repeated for credit is restricted. These restrictions are:

Men's Physical Education—A two-semester limitation on all activities except Body Building, Seasonal Sports, and Varsity Sports.

Women's Physical Education—A two-semester limitation for all activities.

Men and Women—A two-semester limitation in any one dance activity.

A coed class in the same skill or activity constitutes repetition.

## **PE I—PHYSICAL EDUCATION ACTIVITIES**

**½ Unit**

Prerequisite: None.

2 hours weekly.

### **WOMEN'S ACTIVITIES**

BW Body Mechanics - women — Principles of efficient body movement; weight control, relaxation, posture; exercises to develop balance, coordination and poise.

GYW Gymnastics & Tumbling - women — Development of proficiency in apparatus skills, performance in tumbling, and the use of the trampoline.

TSW Team Sports - women — Techniques, strategies, and rules of team sports in season, with opportunity to participate in an intramural program.

### **CO-EDUCATIONAL ACTIVITIES**

ARc Archery - coed — The theory and practice of shooting. Opportunity is provided for the skilled archer to participate in tournaments.

BAC Badminton - coed — Instruction for beginners and advanced players in fundamentals of the game, with emphasis on mixed doubles play.

## PHYSICAL EDUCATION

BLc Ballet — A dance interlude performed to music; the croisé, attitude, arabesques, and Battement a la second movements are emphasized.

BWc Bowling - coed — Instruction in bowling. Students must pay their own fees and provide their own transportation to and from bowling alley.

GOc Golf - coed — Fundamentals of golf as a recreational activity, with instruction in the skills, techniques, rules and etiquette of the game. Students may be asked to participate at local course at own expense.

MDc Modern Dance - coed — Fundamentals of rhythmic form, modern dance techniques, analysis and evaluation of dance composition, practice in individual and group composition, and the presentation of dance productions.

SFDc Social, Folk and Square Dance - coed — Basic rhythms and step patterns of ballroom dancing, American square and folk dances of various countries. The emphasis is on basic steps and dance as a recreational activity.

TEc Tennis - coed — Fundamental rules and techniques of tennis with stress on recreational values.

## MEN'S ACTIVITIES

BoBm Body Building - men — A weight-lifting course designed to provide new and better exercises to reach a physical goal faster, emphasizing those exercises which will give additional musculature to underdeveloped areas; also provides a physical education program for those persons who have limited physical capacity and require remedial or modified physical education.

GYm Gymnastics - men — Development of proficiency in apparatus skills and performance of tumbling and the use of the trampoline.

ISm Intermediate Sports - men Intermediate sports are for those students who wish to become proficient in the activity involved. Previous experience in the activity is not necessary. The sports offered are baseball, basketball, football, and track.

SSm Seasonal Sports - men — Fall semester: touch football, basketball, calisthenics, and related activities; spring semester: basketball, softball, volleyball, calisthenics and related activities.

VSm Varsity Sports - men — Credit in "Activity" for participation in such competitive sports as basketball, baseball, track, tennis, golf, cross-country, and wrestling.

WRm Wrestling - men — Fundamentals of wrestling; holds and maneuvers.

**PE 2—FIRST AID AND SAFETY****2 Units**

Prerequisite: None.

2 hours lecture weekly.

Prevention of accidents; procedures in caring for wounds, shock, unconsciousness, poisons, fractures; dressings and bandages; care and treatment of athletic injuries; qualifies for standard advanced American Red Cross certificate.

**PE 3—HEALTH EDUCATION****2 Units**

Prerequisite: None.

2 hours lecture weekly.

Basic concepts and views regarding healthful living; study of the physical, social, and biological environments as they affect the health of the individual and community. This course fulfills the state requirement for all students in health and first aid.

**PE 5—INTRODUCTION TO PHYSICAL EDUCATION****2 Units**

Prerequisite: None.

2 hours lecture weekly.

Contemporary school physical education programs as related to the total physical education program; history, principles, and problems of interscholastic and intramural activities in physical education.

**PE 16—PRINCIPLES OF OFFICIATING (Men)****2 Units**

Prerequisite: None.

2 hours lecture weekly.

A study of the rules, regulations, and interpretations in all sports designed to familiarize officials as to their responsibilities, positions on field or floor, and the application of the techniques of officiating; for those who plan to administer sports programs.

**PHYSICAL SCIENCE  
PHYSICS**

**PHYSICAL SCIENCE**

**Phy Sci I—INTRODUCTION TO PHYSICAL SCIENCE**

**3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

Fundamental concepts of physics, chemistry, geology, astronomy, meteorology, and the historical record of scientific discovery. Not recommended for students with college credit in any of the physical services.

**PHYSICS**

**Ph 2A-2B—GENERAL PHYSICS**

**4-4 Units**

Prerequisite: High school mathematics through trigonometry (Math 5 may be taken concurrently); high school Physics or Physics 11A; Ph 2A for Ph 2B.

3 hours lecture, 3 hours laboratory weekly.

Demonstration lectures, assignment of problems, and laboratory experiments in the areas of mechanics, heat, sound, electricity, light, and modern physics.

**Ph 4—MECHANICS**

**4 Units**

Prerequisite: High school physics or Ph 11A, Math 21A.

3 hours lecture, 3 hours laboratory weekly.

Demonstration lectures, problems and laboratory work in the fundamentals of mechanics and properties of matter, including problems in forces, motion and energy.

**Ph 5—ELECTRICITY**

**4 Units**

Prerequisite: Ph 4, Math 21A-21B.

3 hours lecture, 3 hours laboratory weekly.

Demonstration lectures, problems and laboratory work in the fundamentals of electricity, including fields, circuits, magnetism and waves.

*Not to be offered 1967-68.*

**Ph 6—OPTICS, HEAT AND MODERN PHYSICS****4 Units**

Prerequisite: Ph 5, Math 21A-21B.

3 hours lecture, 3 hours laboratory weekly.

Demonstration lectures, problems and laboratory work in the fundamentals of physical optics, heat, atomic and nuclear physics, relativity and quantum mechanics, including problems in flow and wave phenomena.

*Not to be offered 1967-68.*

**Ph 10—DESCRIPTIVE PHYSICS****3 Units**

Prerequisite: None.

3 hours lecture weekly.

Primarily a non-mathematical approach to the basic principles of physics, using discussions, lecture-demonstrations, oral and written reports.

**Ph 11A-11B—TECHNICAL PHYSICS****4-4 Units**

Prerequisites: High school algebra with grade of C or higher or equivalent.

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.

**Ph 22—DIRECTED STUDIES IN PHYSICS****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 physics on an independent study basis. Assigned problems will involve library, laboratory, and field work.

**PHYSIOLOGY**  
**POLITICAL SCIENCE**

**PHYSIOLOGY**

**Phys 1—INTRODUCTION TO HUMAN PHYSIOLOGY** **5 Units**

Prerequisite: Ch 20 or equivalent, and Biol 2A-2B.

3 hours lecture, 6 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.

*Not to be offered 1967-68.*

**POLITICAL SCIENCE**

**PSc 1—INTRODUCTION TO GOVERNMENT** **3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

Basic principles of political science as it applies to American and European governmental systems; major governmental institutions, theories about government, and processes of politics; fulfills state requirements for federal, state and local government.

For social science majors or others with strong interest in this subject area.

**PSc 2—COMPARATIVE GOVERNMENTS** **3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

Selected governments of Europe and Asia, including Britain, France, Germany, the Soviet Union, China, and India; the origins and development of governments within these countries, their constitutional principles, political ideologies, institutions, parties, and social policies.

**PSc 3—AMERICAN GOVERNMENT**

**3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

Survey of the main characteristics, historical background, principles, structure, and practice of American government, including the national, California state, and local governments; fulfills the state requirements for study of federal, state and local government.

**Pol Sci 22—DIRECTED STUDIES IN POLITICAL SCIENCE**

**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 political science on an independent study basis. Assigned problems will involve library and field work.

**PSYCHOLOGY**

**Psych 1A—GENERAL PSYCHOLOGY**

**3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

An examination of the subject matter of psychology with emphasis on those areas relating to the understanding of behavior, including the influence of heredity and environment, personality development and adjustment, motivation, abilities, perception, and learning.

**Psych 1B—GENERAL PSYCHOLOGY**

**3 Units**

Prerequisite: Psych 1A.

3 hours lecture weekly.

An introduction to experimental methodology in psychology with the emphasis on learning, perception, and the physiological basis of behavior.

**Psych 2—PERSONAL AND SOCIAL ADJUSTMENT**

**3 Units**

Prerequisite: Psych 1A.

3 hours lecture weekly.

Orientation in the use of psychological principles applied in understanding human relationships and developing social adaptability; major emphasis on the dynamics of normal personality development and problems of mental health.

## **PSYCHOLOGY**

### **READING**

#### **Psych 9—PSYCHOLOGY OF HUMAN RELATIONS**

**3 Units**

Prerequisite: None.

3 hours lecture weekly.

Normal adjustment patterns, varieties of adjustive behavior; application of the basic principles observed for the improvement of personal relations in the areas of home life, education, occupational choice, and citizenship; primarily for students in non-transfer curriculums.

#### **Psych 22—DIRECTED STUDIES IN PSYCHOLOGY**

**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 psychology on an independent study basis. Assigned problems will involve library, laboratory, and field work.

## **READING**

#### **Read 1—BASIC READING SKILLS**

**3 Units**

Prerequisite: English placement test score and counselor recommendation.

2 hours lecture, 3 hours laboratory weekly.

Diagnosis of individual reading difficulties; adaptations to assist student to overcome his individual difficulties by providing suitable materials; use of reading accelerators.

#### **Read 4—TECHNIQUES OF READING**

**2 Units**

Prerequisite: English placement test score and counselor recommendation.

1 hour lecture, 3 hours laboratory weekly.

Improvement of vocabulary, reading speed, and rate of comprehension; practice in scanning and in finding essential ideas; use of mechanical aids, manuals, and films.



## REAL ESTATE

### RE 91—REAL ESTATE PRINCIPLES

**3 Units**

Prerequisite: None.

3 hours lecture weekly.

Practical study of the economic aspects and the fundamental laws and principles of real estate, designed to provide the necessary knowledge required of candidates for the California Real Estate Salesman's Examination; prerequisite for more specialized courses.

### RE 92—LEGAL ASPECTS OF REAL ESTATE

**3 Units**

Prerequisite: RE 91.

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.

*Not to be offered 1967-68.*

### RE 93—REAL ESTATE PRACTICES

**3 Units**

Prerequisite: RE 91.

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.

### RE 94—REAL ESTATE APPRAISAL

**3 Units**

Prerequisite: RE 91.

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.

*Not to be offered 1967-68.*

## REAL ESTATE

### SECRETARIAL TRAINING

#### RE 95—REAL ESTATE FINANCE

3 Units

Prerequisite: RE 91.

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.

*Not to be offered 1967-68.*

#### RE 96—REAL ESTATE ECONOMICS

3 Units

Prerequisite: None.

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.

*Not to be offered 1967-68.*

## RUSSIAN

#### Rus 1A-1B—ELEMENTARY RUSSIAN

4-4 Units

Prerequisite: For Rus 1A, consent of counselor; for Rus 1B, Rus 1A or 2 years of high school Russian.

4 hours lecture, 1 hour laboratory weekly.

A basic study of Russian, both oral and written. Fundamentals of grammar, reading, and practice in the spoken language; extensive use of language laboratory. All students will be expected to spend an additional hour per week of study in the language laboratory.

*Not to be offered 1967-68.*

## SECRETARIAL TRAINING

#### Bus 7A—CALCULATING MACHINES

3 Units

Prerequisite: None.

2 hours lecture, 3 hours laboratory weekly.

Development of skill in the operation of the familiar brands 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 in the solution of more advanced problems; operation of the key-driven calculator by the "touch" system.

**Bus 11A-11B—BEGINNING TYPING****3-3 Units**

Prerequisites: 11A, none; for Bus 11B, Bus 11A or 25 w.p.m.

2 hours lecture, 3 hours laboratory.

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.

Required of business or secretarial students. Students with a grade of C or better in previous typing courses should enroll in Bus 11B.

**Bus 12A-12B—INTERMEDIATE TYPING****3-3 Units**

Prerequisite: Bus 11A-11B with a grade of C or equivalent, or speed of 35 words per minute.

2 hours lecture, 3 hours laboratory weekly.

Practice with various types of business letters, business forms, drafts and the more difficult tabulations; continued drill for speed; emphasis on mastering use of numbers.

**Bus 15A-15B—OFFICE PRACTICE****3-3 Units**

Prerequisite: For Bus 15A, a typing speed of 25 words per minute; for Bus 15B, Bus 15A or consent of instructor.

2 hours lecture, 3 hours laboratory weekly.

Practical training in office procedures such as mail routines, filing, sources of information, duplicating processes, oral and written communication, office conduct, job finding, and public relations.

**Bus 20A-20B—BEGINNING SHORTHAND****4-4 Units**

Prerequisite: For Bus 20A, 1 year typing or concurrent enrollment; for Bus 20B, Bus 20A or shorthand speed of 60 w.p.m.

4 hours lecture, 1 hour laboratory weekly.

Theory of Gregg shorthand, drills in shorthand penmanship emphasizing position and freedom of movement; elementary dictation, stressing phrasing principles and the basic precepts for the development of an extensive vocabulary; fundamental processes of transcription, letter and business aids. Students should attain the minimum skill to take dictation accurately at 70 w.p.m. and to transcribe.

**SECRETARIAL TRAINING**  
**SOCIOLOGY**

**Bus 21A-21B—INTERMEDIATE SHORTHAND**

**4-4 Units**

Prerequisite: For Bus 21A, shorthand proficiency of 70 w.p.m.; for Bus 20B, 80 w.p.m., or consent of instructor.

4 hours lecture, 1 hour laboratory weekly.

Thorough review of shorthand theory with advanced development; speed drill and dictation, 70 to 150 w.p.m.; transcription involving various forms of business letters and other communications with emphasis on mail-ability and production rate. Students should attain minimum 100 w.p.m. dictation rate with accurate transcription at acceptable rates.

Required of two-year secretarial majors.

**Bus 25D—PERSONAL ADJUSTMENT FOR EMPLOYMENT**

**2 Units**

Prerequisite: None.

2 hours lecture weekly.

Personality and human relations in business; job applications and interviews; civil service test review; for secretarial and clerical majors.

**SOCIOLOGY**

**Soc 1—INTRODUCTION TO SOCIOLOGY**

**3 Units**

Prerequisite: 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.

**Soc 2—SOCIAL PROBLEMS**

**3 Units**

Prerequisite: Soc 1.

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.

**Soc 4—MARRIAGE AND THE FAMILY**

**3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours of lecture per week.

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.

**Soc 22—DIRECTED STUDIES IN SOCIOLOGY**

**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 sociology on an independent study basis. Assigned problems will involve library and field work.

**SPANISH**

**Spn 1A-1B—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.

4 hours lecture, 1 hour laboratory weekly.

Training in the basic principles of grammar and pronunciation; development of the ability to understand and to express Spanish in oral and written form; extensive use of the language laboratory. All students will be expected to spend an additional hour per week of study in the language laboratory.

**Spn 2A-2B—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.

4 hours lecture, 1 hour laboratory weekly.

Advanced conversation and composition; reading of various Spanish and Spanish-American authors; review of grammar, with written and oral practice. All students will be expected to spend an additional hour per week of study in the language laboratory.

## **SPEECH**

### **Spch 1—INTRODUCTION TO SPEECH**

**3 Units**

Prerequisite: Eligibility for Engl 1A.

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.

### **Spch 2—ELEMENTS OF PUBLIC SPEAKING**

**3 Units**

Prerequisite: Spch 1 or consent of instructor.

3 hours lecture weekly.

Preparation and formal delivery of various types of speeches, particularly stressing 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.

*Not to be offered 1967-68.*

### **Spch 5—ELEMENTARY ORAL INTERPRETATION**

**3 Units**

Prerequisite: Spch 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.

*Not to be offered 1967-68.*

### **Spch 15—PRACTICAL SPEECH**

**3 Units**

Prerequisite: None.

3 hours lecture weekly.

Development of skills to aid speaker in communication of ideas to audience; emphasis on good emotional adjustment to speech situations by delivery of short speeches, by participation in group discussions, and by learning to function effectively in parliamentary procedures.

## STATISTICS

### Stat 1—ELEMENTARY STATISTICS

3 Units

Prerequisite: Math 7 or equivalent.

3 hours lecture weekly.

A survey of descriptive statistics useful to business, education, psychology, and engineering students; measures of central tendency; measures of variation; the Gaussian distribution; logical inference and prediction; and regression, correlation, and time series.

## SUPERVISION

### Sup 90—ELEMENTS OF SUPERVISION

2 Units

Prerequisite: None.

2 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, management-employee relations, safety.

## THEATRE ARTS

### ThA 2A-2B—FUNDAMENTALS OF ACTING

3-3 Units

2 hours lecture, 3 hours rehearsal weekly.

Prerequisite: None.

Introduction to characterization; exercises in pantomime, movement, voice, body control and timing; practical experience in acting on stage.

### ThA 10A-10B-10C-10D—REHEARSAL AND PERFORMANCE

2-2-2-2 Units

Prerequisite: Consent of instructor.

6 hours rehearsal weekly.

Supervised acting in performance of college-sponsored drama productions; experience in all activities related to theatre presentations.

**THEATRE ARTS  
ZOOLOGY**

**ThA 20A-20B—THEATRE PRODUCTION**

**2-2 Units**

Prerequisite: Concurrent enrollment in ThA 21.

Lectures and demonstrations in the theatre and its equipment; design, construction and handling of stage scenery, properties, lighting and techniques of production.

*Not to be offered 1967-68.*

**ThA 21A-21B-21C—THEATRE PRODUCTION LABORATORY**

**1-1-1 Unit**

Prerequisite: Concurrent enrollment in ThA 20A or 20B.

3 hours rehearsal weekly.

21A—Construction and Design; 21B—Costume and Make-up; 21C—Lighting and Sound.

Laboratory experience through participation in theatrical productions; actual experience in the areas indicated.

*Not to be offered 1967-68.*

**ThA 24—INTRODUCTION TO THE THEATRE**

**3 Units**

Prerequisite: Satisfactory score on placement test.

3 hours lecture weekly.

Introduction to the theatre as an art form; appreciation of the theatre, past and present.

**ZOOLOGY**

**Zo 1A-1B—GENERAL ZOOLOGY**

**5-5 Units**

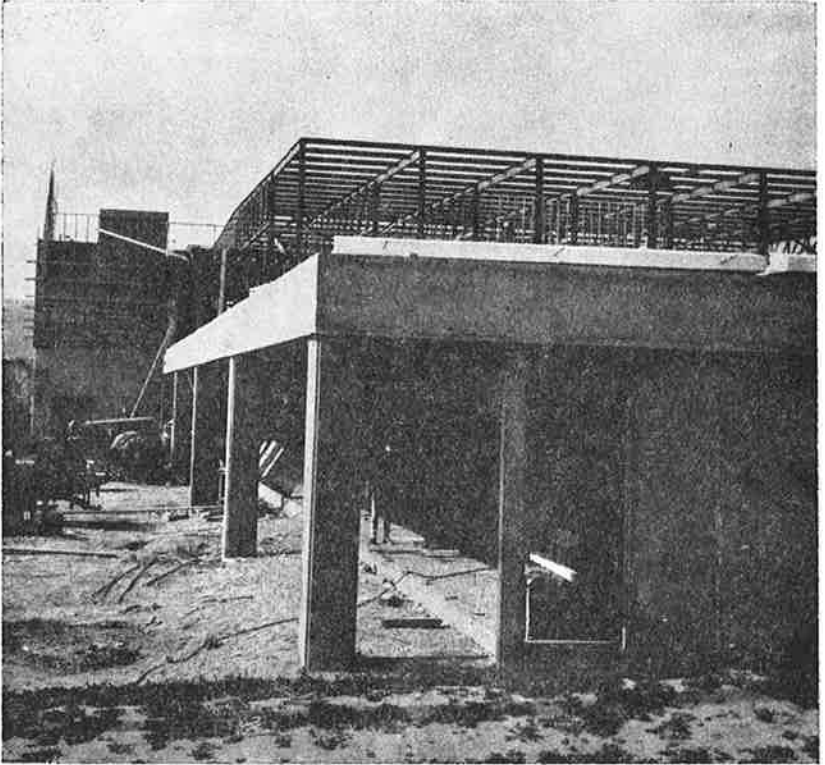
Prerequisite: Satisfactory score on placement test; Zo 1A for Zo 1B.

3 hours lecture, 2 three hour laboratories weekly.

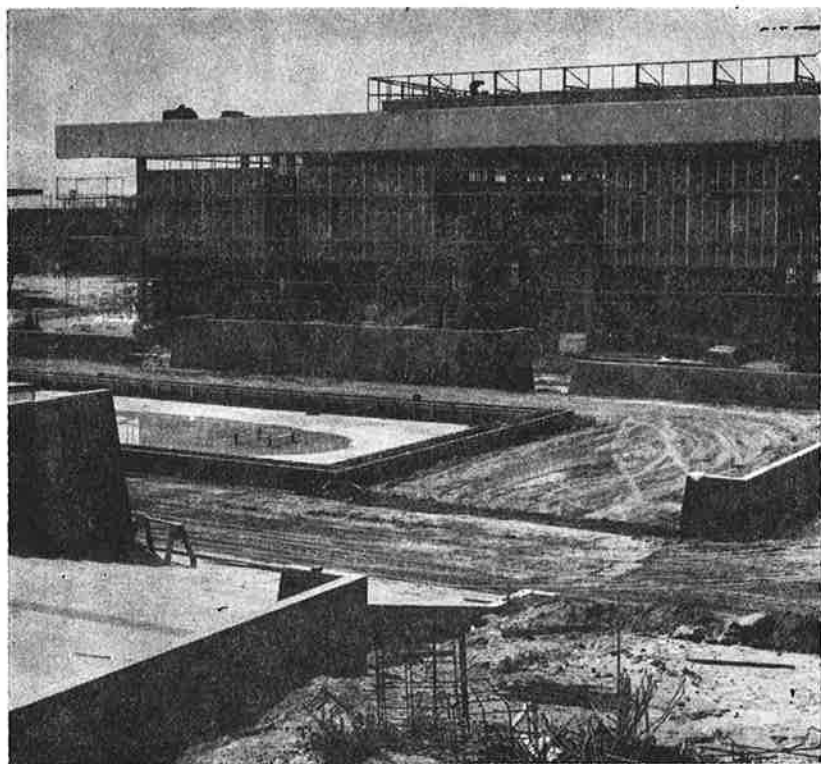
Introduction to animal structures and functions; survey of animal kingdom; biological interactions; comparative functional morphology; Zo 1A emphasizes invertebrates (except echinoderms); Zo 1B emphasizes chordates and echinoderms.

*Not to be offered 1967-68.*





WOMEN'S GYM AREA



LIBRARY

# *Faculty and Administration*

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Director of Library Services .....	Dr. Michael M. Slama
Director of Counseling .....	Mr. Robert A. Lombardi
Director of Student Activities .....	Mr. W. Ray Hearon
College Nurse .....	Miss Estella M. Bassett

## COUNSELING STAFF

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Counselor	
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Business .....	Mr. W. Ray Hearon
Science, Business .....	Mr. Robert A. Lombardi
Agriculture, Home Economics .....	Mr. Maynard E. Sommer
Humanities .....	Mr. Michael Strumpf
Social Science .....	Mrs. Maxine R. Tallman

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### Division Chairmen:

Humanities and Social Sciences .....	Dr. Howard Siegel
Health and Physical Education .....	Mr. James L. Moore
Natural Sciences and Mathematics .....	Mr. James R. Gayle
Technology .....	Mr. William H. Lawson

### Department Heads:

Business and Economics .....	Mr. Kenneth E. Ainge
Engineering and Engineering Technology .....	Mr. Charles C. Dähl
Social Sciences .....	Dr. Stephen J. Herzog
Life Sciences .....	Mr. Clinton F. Schonberger

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M.A., University of California at Los Angeles	
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M.P.H., University of California at Los Angeles	
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M.B.A., University of California at Los Angeles	

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 M.S., Purdue University
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 M.A., University of California at Davis
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- TALLMAN, MRS. MAXINE R. .... Psychology  
 B.A., M.A., University of California at Santa Barbara





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