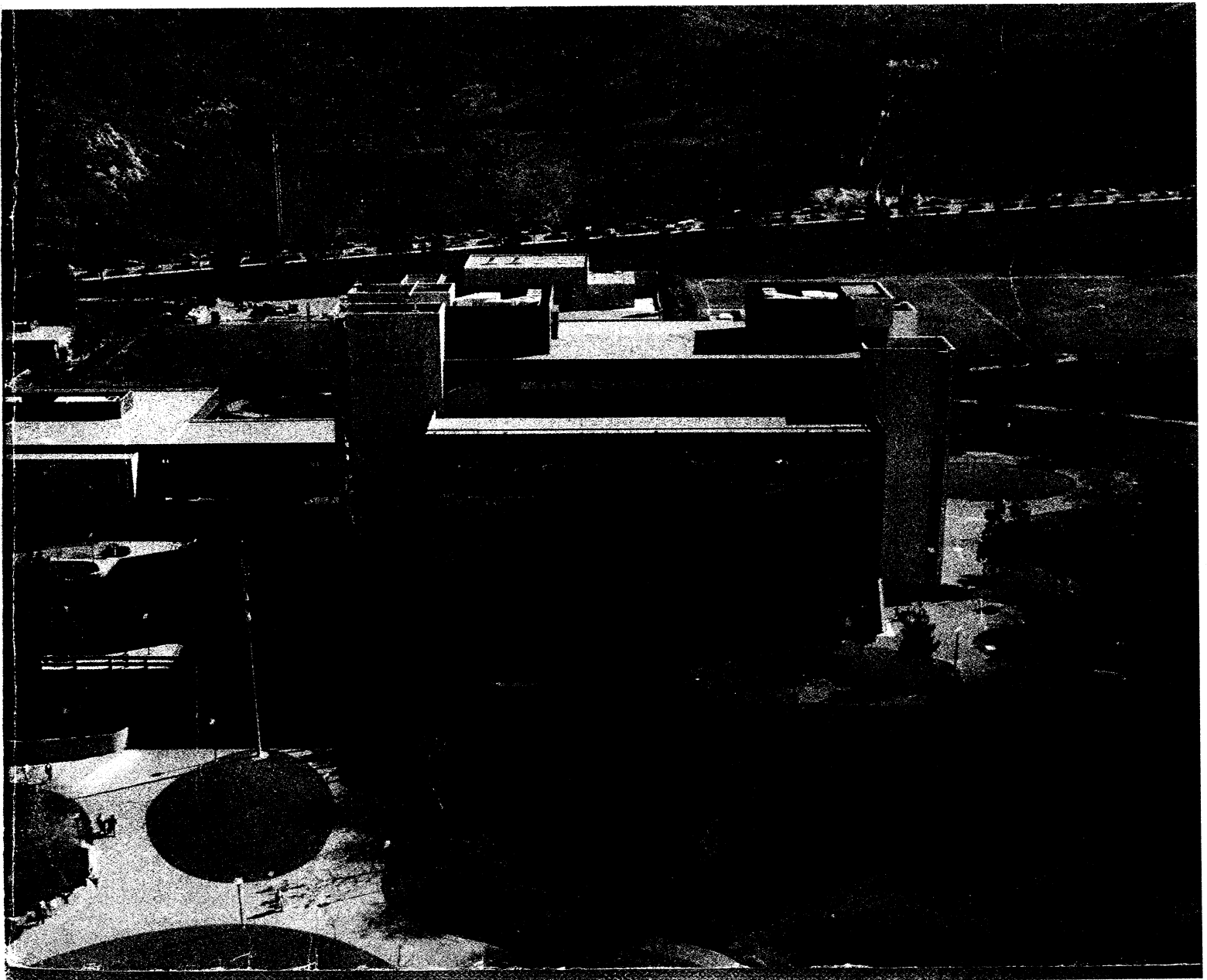


WEST  
Established  
1949

WEST LOS ANGELES COLLEGE



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## ACCURACY STATEMENT

The Los Angeles Community College District and West Los Angeles College have made every reasonable effort to determine that everything stated in this Catalog is accurate. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of the Los Angeles Community College District or West Los Angeles College for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the District and the College. The District and the College further reserve the right to add to, amend, or repeal any of their rules, regulations, policies and procedures, consistent with applicable laws.

# GENERAL INFORMATION

## THE COLLEGE

Stand on the main campus of West Los Angeles College on a weekday morning and you'll notice that:

- The campus, set on over 70 acres of rolling hillside, is new, inviting, and beautifully maintained;
- The approximately 9,000 students come from a rich mixture of nationalities and cultures; and
- There's a wealth in academic facilities and skilled instructors dedicated to helping students fulfill their goals.

But there's more to the College than the main campus. Crucial to WLAC is the **Marina Center** at 13953 Panay Way in picturesque Marina del Rey. This full-service center offers a wide variety of classes in a comfortable setting. Typical course offerings include art, foreign language, administration of justice, and business.

Another major component of the College is the **Airport Campus** at 9700 S. Sepulveda Boulevard. Here students find completely equipped shops where instruction meeting Federal Aviation Administration requirements is given in aircraft repair and maintenance. Major subjects offered at this center include aircraft electronics technology, aerospace technology, and aviation maintenance technician electronics.

But more important than facilities: WLAC's students are part of an institution devoted to excellence. Fully accredited by the Western Association of Colleges and Universities, the College offers 25 transfer and 19 vocationally oriented programs. Appropriate curricula are recognized by the American Dental Association and the Federal Aviation Administration. The Learning Resource Center offers state-of-the-art equipment and materials. Instructors employ a wide variety of methods to suit students' diverse learning styles.

This catalog, the official document of the College, describes the courses, programs, facilities, and services offered by WLAC and the Los Angeles Community College District. (The *Schedule of Classes* contains current course offerings.) It also contains regulations and recommendations vital to students which should be carefully read. But no document can convey the College's spirit.

The best way to understand what the College offers you is still to come to the campus, enjoy our view of ocean and mountains, sense in this safe and relaxed atmosphere our students' seriousness of purpose, and enroll in that course or program that will enhance your professional and personal success.

## EDUCATIONAL PHILOSOPHY

The Los Angeles Community Colleges affirm the principle that individuals should have opportunities to develop to their full potential. To that end, our main responsibility is to students and to the provision of education which benefits students and enables them to contribute to society.

Our colleges, therefore, should be accessible to all individuals who have the capacity and motivation to profit from higher education. Curricula and services of our colleges should provide means for fulfilling the promise of open access.



We recognize the necessity to adapt to the changing educational needs of the Los Angeles Community Colleges' communities and to the growing diversity among students. The quality of the educational experience is to be judged by its value to students and communities, not merely by quantitative appeal. We further recognize that academic freedom is essential to excellence in education.

The mission of the Los Angeles Community Colleges is to provide comprehensive lower-division general education, occupational education, transfer education, transitional education, counseling and guidance, community services, and continuing education programs which are appropriate to the communities served and which meet the changing needs of students for academic and occupational preparation, citizenship, and cultural understanding.

In pursuit of this mission, we endeavor to:

- promote equal opportunity for participation;
- maintain appropriate standards for academic achievement;
- provide an educational environment which meets the needs of students with varied learning skills;
- provide support services which contribute to instructional effectiveness and student success;
- affirm the importance of multi-cultural, international, and inter-cultural collegiate experiences that foster individual and group understanding;
- manage effectively educational and financial resources.

## FUNCTIONS OF THE COMMUNITY COLLEGES

To accomplish the educational philosophy and mission of the Los Angeles Community Colleges, West Los Angeles College offers the following types of educational programs.

*Transfer.* A college transfer program which enables the student who completes two years of study to continue upper division (third year) work at accredited four-year colleges and universities through careful and continuous articulation with accredited collegiate institutions and high schools.

*Occupational.* An occupational education program planned to offer the student basic business, technical, and professional curricula to develop skills which can lead to employment, job advancement, certification, or the associate degree.

*General Education.* A program of general education comprised of associate degree programs and other planned experiences which develop knowledge, skills, and attitudes necessary for the student to be effective as a person, a family member, a worker, and a citizen, thereby enhancing the quality of life for the individual and for the society-at-large.

*Transitional Education.* A program of remedial and basic skills education for students needing preparation for commu-

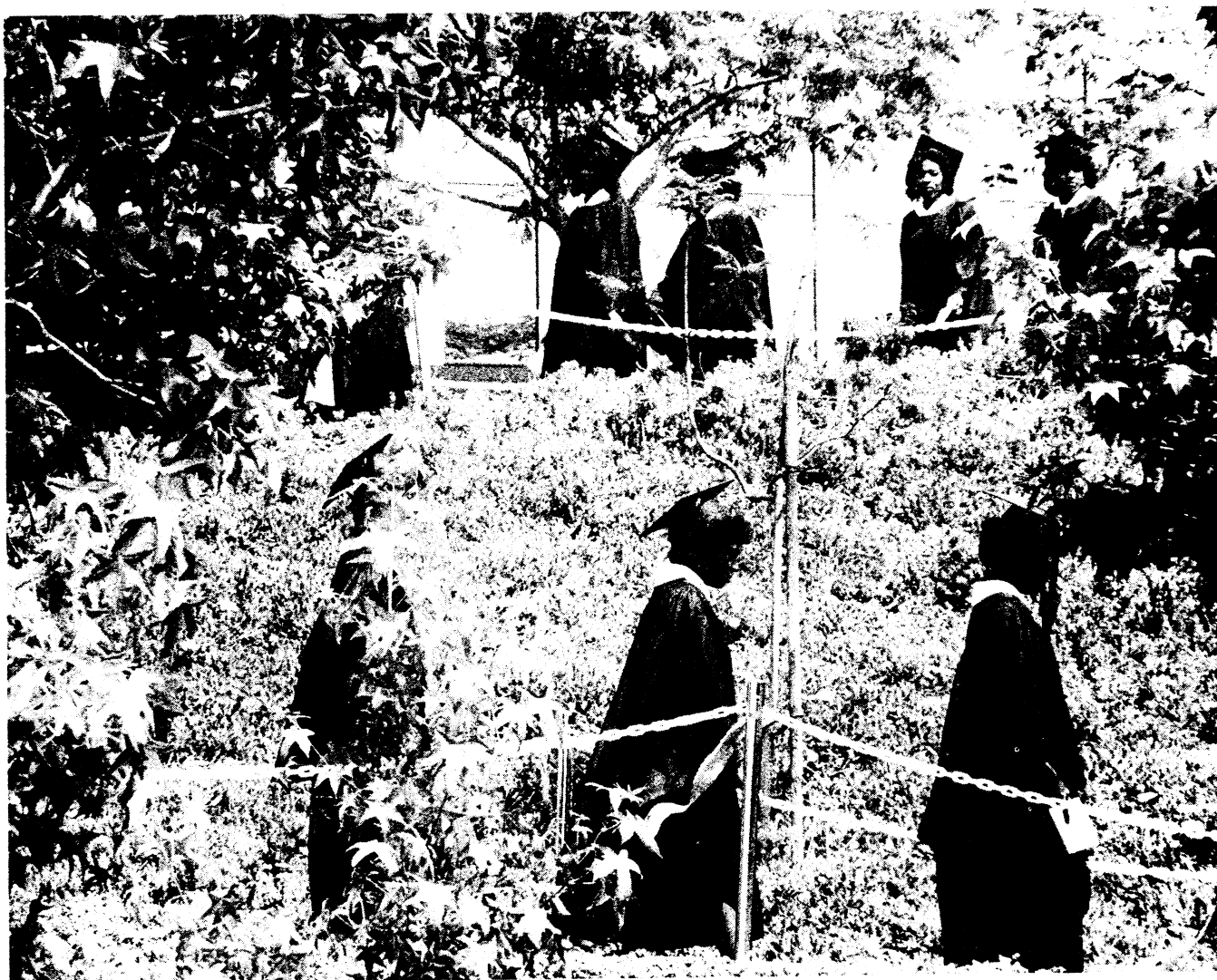
ity college level courses and programs; and English as a Second Language instruction for immigrants, foreign students and other students with limited English proficiency.

*Counseling and Guidance.* A counseling and guidance program incorporating academic, career, and personal counseling and assistance in matters of admissions, financial aid, job placement and student activities; to assist the student in the establishment of educational goals and in the selection and pursuit of a life work compatible with his or her interests, aptitudes, and abilities.

*Continuing Education.* A program of continuing education comprised of graded and ungraded classes to provide opportunities for personal and occupational competence that supplement formal full-time college attendance.

*Community Services.* A program of community services offered to meet the needs of the community for vocational and recreational courses, community and cultural events, and civic functions, completely financed by fees charged those in attendance.

*Joint Programs.* Joint programs with business, industry, labor, education, government and other institutions which are of mutual benefit to sponsoring institutions, enhance the educational opportunities of program participants, and advance the mission and functions of the District.



# ADMISSION AND REGISTRATION PROCEDURES

## ADMISSION

**ALL STUDENTS MUST MEET ALL ADMISSIONS REQUIREMENTS BEFORE A PERMIT TO REGISTER WILL BE ISSUED. Admission and registration procedures are detailed in the Schedule of classes.**

## ADMISSION ELIGIBILITY

Persons who possess a high school diploma or its equivalent meet the basic eligibility requirement for admission to any public California two-year community college.

Persons who do not possess a high school diploma or its equivalent but who meet additional criteria are also eligible for admission if in the judgment of the College Admissions Officer they are capable of profiting from the instruction offered. Additional eligibility criteria include:

1. Persons who are eighteen (18) years of age.
2. Persons who are apprentices, as defined by Section 3077 of the California Labor Code.
3. Persons in grades K-12, under special circumstances.

Information regarding other eligibility criteria and/or admission procedures is available in the Office of Admissions and Records.

## Readmission

Students who have not attended for one or more semesters must file a new application. Students who have not attended for two or more years must also resubmit transcripts.

## Admission on Probation

Applicants for admission whose scholastic achievement at another college represents less than a "C" average may be admitted on probation for one semester. Admission on probation is a privilege granted by the College. A petition for admission on probation must be filed at the time of application.

## Disqualified Students

Students who have been disqualified from another college must file a petition for admission in addition to an application.

## RESIDENCY REQUIREMENTS

### California Residence Requirement

To attend any of the Los Angeles Community Colleges as a resident of California, a student is required to have been a California resident for more than one year immediately preceding the Residence Determination Date. The "Residence Determination Date" is that day immediately preceding the opening day of instruction of the semester or summer session. Residence is defined as a union of act and intent.

## District Residence Requirement

At the time of application each student is required to file a Statement of Residence to ascertain the college district jurisdiction in order to comply with requirements of the law. The information given by each student is subject to certification, and any falsification can result in immediate cancellation of registration and exclusion from the College.

Residents of certain college districts outside the Los Angeles Community College District are subject to enrollment limitations and/or restrictions. Residents of the following districts should check with the Office of Admissions and Records for details:

|           |               |
|-----------|---------------|
| Cerritos  | Long Beach    |
| Compton   | Pasadena      |
| El Camino | Rio Hondo     |
| Glendale  | Santa Clarita |

## Non-Resident

A non-resident student is one who has not had residence in the State of California for more than one year immediately preceding the Residence Determination Date. Residence is defined as a union of act and intent. Physical presence alone is not sufficient to establish California residency nor is intent when not coupled with continuous physical presence in the State. Certain non-U.S. citizens are permitted to establish residency and certain others are not. Check with the Admissions Office regarding your particular status.

A student classified as a non-resident will be required to pay non-resident tuition fees as established by the District Board of Trustees.

## Residence Reclassification

Students who have been classified as non-residents must petition to be reclassified as residents at any time as they feel their status has changed. The Residence Reclassification form is available in the Admissions Office and must be submitted prior to the semester in which reclassification as a resident is to be effective.

## Residence Appeal

A student may appeal the residence classification determined by the college. The appeal must be made within 30 calendar days of receipt of notification of the residence classification from the Admissions Office. The appeal must be submitted in writing to the college Admissions Officer who will forward it to the District Residency Appeal Officer.

## Foreign Students/Admissions

West Los Angeles has established an International Student Program as authorized by the U.S. Immigration and Naturalization Service. Under this program, students who are not U.S. citizens and whose previous education has been wholly or partially in a foreign country must apply for admission by filing first with the Foreign Student Advisor in the Counseling Office. Applications for change of status from "B" to "F" must also be reviewed and accepted first by the Foreign Student Advisor.

Prospective non-immigrant students (students holding an "F" or "B" visa) must conform to the following procedures:

1. Be over 18 years of age.
2. Demonstrate a sufficient grasp of English to deal with lecture, reading and understanding at the college freshman level. A score between 450-500 on the "Test of English as a Foreign Language" (TOEFL) will meet this requirement.
3. Have adequate monetary funds to cover their entire expenses — tuition, housing, and other living costs.
4. Have a local sponsor who is a permanent resident of the Los Angeles Community College District.
5. Have submitted all required documents for admission by July 15, for the Fall semester, and December 15, for the Spring semester.
6. Plan to arrive at the College at least one week prior to the date of enrollment. The College cannot assure registration unless the student meets these requirements.

## TRANSCRIPTS REQUIRED FOR REGISTRATION

1. New students (first time in any college) must request official transcripts and test data from the high school from which they are graduating or which they last attended to be submitted directly to the Admissions Office.
2. Transfer students (those who have attended another college)
  - a. who have completed fewer than 12 semester units (18 quarter units) must submit both high school and all college transcripts;
  - b. who have completed 12 or more semester units (18 quarter units) need submit college transcripts only;
  - c. who hold an Associate or higher degree and have so certified on their Application for Admission are exempt from submitting transcripts;
  - d. who are now taking college courses and fit category "a" or "b" above should request a Work-in-Progress Report or a Report of Mid-Term Grades in addition to required transcripts.

## ASSESSMENT/ORIENTATION

The students who attend WLAC vary considerably in their level of interests, abilities, and previous academic preparation. The purpose of the Assessment/Orientation program is to help students select those courses which will be of most benefit and provide the student with the best possible chance of success.

All students submitting an application for admission to WLAC are required to complete the WLAC Assessment/Orientation program (including placement in English and some mathematics courses) before they register for classes. This includes all first-time students and all returning WLAC students who have not been in continuous enrollment. In addition, any student planning to enroll in an initial entry-level English or math class will also be required to take this exam.

Assessment exemptions may be granted to the following students:

1. continuing WLAC students
2. those students taking fewer than 12 cumulative units who have no transfer, degree or certificate goals
3. returning WLAC students who have completed, with a grade of C or better, a sequential English or math course at WLAC within the past 10 years
4. returning WLAC students who have completed, within the past 5 years, the English or Math Placement Exam required as a course prerequisite
5. transfer students from another college who have completed, with a grade of C or better within the past 10 years, a course equivalent to one of WLAC's sequential English or math courses and whose transcripts have arrived in time for evaluation.

All students seeking an assessment exemption must first see a counselor. **It is strongly recommended that students complete Assessment/Orientation several weeks before their assigned registration date.** This will help to avoid a delayed registration period.

It is the student's responsibility to come to the Counseling Center (Student Services building) to make an appointment for this program. Dates and times are available in the Schedule of Classes and at the Counseling Center.

The English placement section of the program is used to help determine a student's placement into the most appropriate entry-level English class (English 101, 28, 21, 84, 85 or 86). The result of this examination is recorded on a blue registration authorization card. This registration card must be presented to the Admissions Office at the time of registration by all students taking an initial course in English.

The math portion of the Placement Exam is used to determine a student's place in Math 105 and 115. (For placement in higher level math courses, students should consult with math workshop personnel or with the math department chairman.) Examination results are recorded on green registration authorization cards. This registration card must be presented to the Admissions Office at the time of registration by all students taking an initial course in math.

### Chemistry Placement Examination

A passing score on the Chemistry 1 Placement Examination is required of all students who plan to enroll in Chemistry 1. (This requirement is waived for students who have completed Chemistry 10 at WLAC with a grade of C or better.) This examination presumes a student has successfully completed two years of high school algebra and one year of high school chemistry or their equivalents. The results of this examination are recorded on yellow registration authorization cards, which can be picked up from the Counseling Center two working days after the examination. This card must be presented to the Admissions Office at the time of registration.

### School and College Ability Test (S.C.A.T.)

The School and College Ability Test (S.C.A.T.) is required of all students who apply to the WLAC Nursing Program. There are two parts to this test. The first part deals with verbal ability and the second deals with mathematical ability. Sample questions can be obtained from the Assessment Center. The results of this examination are recorded on orange examination record cards, which are available from the Counseling Center two working days after the test.

## STUDENT FEES

### Enrollment Fee

Commencing with the Fall 1984 semester, the California State Legislature has mandated the collection of enrollment fees for public community college students. The required fee is \$50 per semester for students enrolling in classes totaling six or more credit semester units and \$5 per unit for students enrolling in classes totaling fewer than six credit semester units. This fee must be paid at the time of registration. The fee schedule is listed below:

| Units Enrolled In | Fee Per Semester |
|-------------------|------------------|
| 1                 | \$ 5             |
| 2                 | \$10             |
| 3                 | \$15             |
| 4                 | \$20             |
| 5                 | \$25             |
| 6 or more         | \$50             |

If at the time of enrollment you are receiving benefits under the Aid to Families with Dependent Children Program, the Supplemental Security Income/State Supplementary Program, or the General Assistance Program, the enrollment fee will be waived. For information on the procedure for requesting a waiver, contact the Financial Aid Office prior to the date of your enrollment.

Financial aid may be available to students who meet the qualification requirements. Students with questions concerning financial aid eligibility should contact the College Financial Aid Office. Applications should be submitted as soon as possible.

### Enrollment Fee Assistance

The college offers enrollment fee assistance to students who are unable to pay the enrollment fee. For immediate enrollment fee assistance students should contact the College Financial Aid Office to obtain 1.) an Enrollment Fee Waiver or 2.) an Enrollment Fee Credit.

The Enrollment Fee Waiver is available to students whose families receive AFDC assistance or some form of Social Security benefits. The Enrollment Fee Credit is available to students whose family income and size fall within the following limits:

| Number in Household (including yourself) | Total 1986 Family Income (Adjusted Gross Income and/or Untaxed Income) |
|--|--|
| 1  | \$ 7,500 or less   |
| 2  | \$15,000 or less   |
| 3  | \$16,000 or less   |
| 4  | \$17,000 or less   |
| 5  | \$18,000 or less   |
| 6  | \$19,000 or less   |
| 7  | \$20,000 or less   |
| 8  | \$21,000 or less   |
| +  | Add \$1,000 for each additional dependent                              |

### Enrollment Fee Refund Policy

For other than short term classes, a full refund of the enrollment fee will be made up to the end of the second week of class. Thereafter, no refund is authorized, except when college action to cancel or reschedule a class necessitates the drop.

For short term classes, a full refund is authorized up to the end of a period of time equal to 10% of the total class time. Thereafter, no refund is authorized, except when college action to cancel or reschedule a class necessitates the drop.

After the second week when less than the \$50 maximum has been paid, fees for classes which are dropped will be applied to classes added simultaneously or after a drop. No refunds will be given for drop transactions alone. Students are strongly advised to complete add and drop transactions at the same time. For example, a student who enrolls in 3 units, then after the second week drops those 3 and adds another 3 units, will not be charged an additional fee. A student who enrolls in 3 units, then after the second week adds 2 units and pays the additional fee, but drops the next day or later, will not be given a refund.

### Parking Fee

Parking in areas marked "Parking by Permit Only" will be restricted to vehicles displaying a valid permit. Parking Permit procedures and fee information are available in the Business Office.

### Non-Resident Tuition Fee

The 1987-88 tuition fee for non-resident students is \$97.00 per semester unit and must be paid at the time of registration. This fee is subject to change each academic year.

**Please note:** Non-resident students are also required to pay the community college enrollment fee.

### Non-Resident Tuition Refund Criteria and Schedule

A non-resident student who formally drops or otherwise separates from part or all of his enrollment may request a refund of previously paid non-resident tuition in accordance with the schedule below. Such request must be made in writing on a form provided by the District.

The date used for non-resident refund purposes is the date on which such request is filed and time stamped, regardless of when separation may have occurred. All non-resident refunds will be made by mail.

Non-resident refunds will be computed as follows:

| CLASS TYPE                            | DATE REQUEST TIME STAMPED  | REFUND                    |
|---------------------------------------|--|---------------------------|
| Regular Length (Fall, Spring, Summer) | Through second week of instruction.<br>After second week of instruction. | Full Tuition<br>No Refund |
| Short Term (Less than regular length) | Through 10 percent of class length.<br>After 10 percent of class length. | Full Tuition<br>No Refund |

### Student Records and Directory Information

The Los Angeles Community College District, in compliance with Federal and State law, has established policies and procedures governing student records and the control of personally identifiable information. The Los Angeles Community College District recognizes that student records are a confidential matter between the individual student and the College. At the same time the District has a responsibility to fulfill public information needs (i.e., information about students participating in athletics, announcement of scholarships and awards, etc.). To meet this responsibility the District may

release Directory Information unless the student states in writing that he or she does not want it released. The responsibility for carrying out these provisions is charged to the College Records Officer, designated by the chief administrative officer on each campus. The Records Officer may be contacted via the Office of Admissions. Copies of Federal and State laws and District policies and procedures are maintained by the Records Officer and are available for inspection and inquiry.

All student records maintained by the various offices and departments of the College, other than those specifically exempted by law, are open to inspection by the student concerned. The accuracy and appropriateness of the records may be challenged in writing to the Records Officer. A student has the right to receive a copy of his or her record, at a cost not to exceed the cost of reproduction. (Requests for transcripts should be made directly to the Office of Admissions).

No student records, other than Directory Information, will be released without the written consent of the student concerned except as authorized by law. A log of persons and organizations requesting or receiving student record information is maintained by the Records Officer. The log is open to inspection only to the student and the community college official or his or her designee responsible for the maintenance of student records.

Directory Information includes the student's name, city of residence, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. Directory Information about any student currently attending the College may be released or withheld at the discretion of the Records Officer.

No Directory Information will be released regarding any student who has notified the Records Officer in writing that such information shall not be released.

All inquiries regarding student records, Directory Information, and policies for records access, release, and challenge should be directed to the Records Officer via the Office of Admissions.

Students have the right to file a complaint with the United States Department of Education concerning alleged violations of Federal and State laws governing student records.

## Instructional Materials

Students may be required to provide instructional and other materials required for a credit or noncredit course. Such materials shall be of continuing value to a student outside of the classroom setting and shall not be solely or exclusively available from the District.

## Family Education Rights and Privacy Act

See Student Records and Directory Information.

## Affirmative Action

The policy of the Los Angeles Community College District is to implement affirmatively equal opportunity to all qualified employees and applicants for employment without regard to race, color, national origin, ancestry, religion, creed, sex, age, handicap, marital status, sexual orientation, or veteran status.

Positive action will be taken to ensure that this policy is followed in all personnel practices, including recruitment, hiring, placement, upgrading, transfer, demotion, treatment during employment, rate of pay or other forms of compensation, selection for training, layoff, or termination. A vigorous Affirmative Action Program will be maintained to ensure appropriate utilization of certain protected groups in specific areas and levels within the District workforce through the implementation of specific result-oriented procedures and activities (Board Rule 101301).

Inquiries regarding Affirmative Action at West Los Angeles College should be directed to the College Affirmative Action Representative, Herman Bacchus, Dean/Airport Center, (213) 776-5264.

## Social Security Number

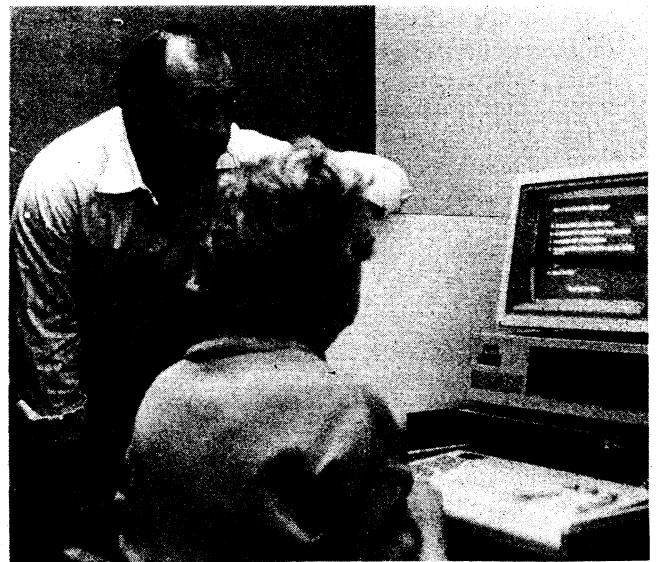
The Los Angeles Community College District maintains a student record system that uses the Social Security number to identify an individual's records. However, if students do not wish to report their Social Security number, an alternate identification number will be assigned by the College.

## Transcripts

Upon written request of the student a copy of the student's academic record shall be forwarded to the student or his or her designated addressee promptly by U.S. mail or other responsible forwarding agency.

A student or former student shall be entitled to two free copies of the transcript of his or her record or to two free verifications of student records. Additional copies shall be made available to the student, or to an addressee designated by the student, at a cost of \$1.00. Students may request special processing to expedite their request for an additional fee of \$5. This option is subject to the college's ability to provide this service. Requests for transcripts or verifications may be obtained in the Office of Admissions. Transcripts from another institution are not available for copying.

The student's transcript may be withheld if 1) any library books or other library materials are charged to the student and are unreturned, or 2) there are any unpaid fees or charges due to the College. The transcript may be withheld until these obligations of the student to the College are discharged.





# STUDENT AFFAIRS

## COUNSELING AND GUIDANCE

While success in college undoubtedly depends upon personal initiative and diligence, many students need personal assistance in choosing a major, a transfer college, or a career. They also benefit from clear definition of their abilities and interests. Such assistance is readily available through Academic Advisement, the Assessment Center, the Career/Life Planning Center, and the Center for New Options.

### Academic Advisement

Academic counseling at WLAC begins for new freshmen with orientation, during which students in group sessions receive registration information and help with educational problems. Throughout the year, help with such problems as planning a course of study, choosing a major, and meeting transfer requirements is available on an appointment or walk-in basis. Under the direction of the Dean of Academic Affairs, this counseling is advisory only, as students are expected to assume responsibility for completing the courses of study which they have selected.

### Assessment Center

The Assessment Center (in the Student Services building) provides students with an opportunity for self-exploration through the following assessment instruments:

1. The Reading Self-Assessment Program, designed to help students upgrade reading skills;
2. Career Assessment in conjunction with the Career/Life Planning Center;
3. Placement examinations in English, mathematics, chemistry, and dental hygiene (the Dental Hygiene Aptitude Test).

In addition, the Center offers Test Anxiety Management Workshops that help students reduce the negative effects of anxiety and worry on exam performance.

### Career/Life Planning Center

The Career/Life Planning Center (in the 85-100 building) provides counseling services focusing on career, employment, and personal changes. In addition, it offers educational planning and college entry assistance to students and the community.

Among the Center's resources are the Career/Personal Appraisal Program, an extensive library of occupational, general college, and transfer information, and periodicals and newsletters detailing future career prospects. A major focus is the computerized Eureka career information system, which provides current occupational descriptions, job availability data, career preparation requirements, and relevant college information classified by field of study, location, and cost. The Center also offers credit courses in career planning.

Further information and appointments are available at 836-7110, ext. 355 or 356.

### Center for New Options

Specializing in the concerns of mature men and women who are attending the College after a break in their education, the Center for New Options (in the Student Services building)

provides academic, personal, and career counseling. In addition, it offers referral information, workshops, films, a resource library, a variety of special interest programs, and a place to relax. Further information is available at 836-7110, ext. 353.

## EOP&S

The EOP&S Program offers to the student who meets the State's eligibility requirements a variety of services. The EOP&S package of counseling, tutoring, book & supply vouchers, peer advisement and other support services is designed for the student with an income disadvantage. EOP&S is an omnibus program whose broad purpose is to concentrate resources and present opportunities to its student clientele.

## FINANCIAL AID

### Financial Aid Policy

#### Purpose

The purpose of the Student Financial Aid Program is to serve students who need assistance in meeting the basic costs of their education. Because funds are limited, Federal and State regulations require that these funds go to students who demonstrate financial need. This section outlines the application procedure, the means for demonstrating need and eligibility, and some of the major programs available at the College. Students who think they may be eligible for financial aid should visit the College Financial Aid Office for assistance and information.

#### How to apply:

1. Apply for admission to the College.
2. Obtain the Student Aid Application for California (SAAC) and other required forms from the Financial Aid Office.
3. Complete and return (or mail) the application as instructed by the Financial Aid Office.

**Priority is given to early applicants.** Established deadline dates are observed. Check with the College Financial Aid Office to learn what deadline dates have been established. Normal processing time is usually four to twelve weeks for each application. Incomplete applications will delay the processing of awards and payments. A new application with supporting documents must be completed for each academic year the student wishes to receive financial assistance. Students determined to be eligible will be offered a financial aid package consisting of a combination of scholarships, grants, loans, and/or employment.

*It is important for students to have sufficient income or funds available to begin their first few weeks of college as financial aid payments are usually not disbursed to students until the first or second week of each semester.*

#### College Policy on Financial Aid

All financial aid at the College is administered in accordance with policies and philosophy which have been established nationally. The basis of such programs is the belief that parents and students have the primary responsibility to meet educational costs and that financial aid is available only to fill the gap between the family's and/or student's contribution and allowable educational expenses. The amount of student or

family contribution expected is determined by a careful analysis of financial strength: income, number of dependents, and net assets versus allowable expenses which the family may have. Educational expenses which are considered a basis for establishing student need include tuition, fees, room, board, transportation, personal expenses, and child care. Each financial aid office has an established student budget to reflect the cost of each of these items. New fees mandated by the State will be included in the educational expenses of students. All students who are awarded financial aid will be required to sign a Statement of Educational Purpose that the funds received will be used only for educational expenses.

#### General Eligibility for Financial Aid

Specific eligibility requirements vary from program to program. To receive financial aid, a student must:

1. Meet one of the following requirements:
  - a. Be a U.S. citizen or National;
  - b. Be a permanent resident of the U.S.;
  - c. Provide evidence from the Immigration and Naturalization Service that he or she is in the United States for other than a temporary purpose with the intention of becoming a citizen or permanent resident; or
  - d. Be a permanent resident of the Trust Territory of the Pacific Islands or the Northern Mariana Islands;
2. Be in financial need;
3. Be maintaining satisfactory progress in the course of study he or she is pursuing according to the standards and practices of the Los Angeles Community College District;
4. Not owe a refund on a Pell Grant, Supplemental Grant, or State Student Incentive Grant at ANY college of attendance;
5. Not be in default on any Perkins Loan (formerly National Direct Student Loan), Nursing Loan, Guaranteed Student Loan, California Loan to Assist Students (CLAS), or any loan received at ANY college of attendance;
6. Be enrolled at least half-time (6 units).
7. Students who are admitted on the basis of ability to benefit (non-high school graduates) must provide a college counselor recommendation. Continuing financial aid students do not need to resubmit this information.
8. Have met legal requirements for selective service registration.

#### Determining Financial Need

The number and amount of financial awards and payments are subject to availability of institutional, Federal, and State aid funds. The type of aid and amount received will be determined by the Financial Aid Office. Financial aid awards are based on demonstrated financial need which is the difference between allowable educational expenses and the total of the parents' expected contribution, and/or the student's own resources. Resources may include, but are not limited to, employment earnings, veteran's benefits, Social Security benefits, or parents' contribution. Resources are then measured against the institutional student expense budget to determine legitimate financial need.

Resources are determined from the financial aid application submitted by the student. Documentation of resources including the 1040 Federal Income Tax Return of the parent and/or student will be required. All information is held in strictest confidence.

## Satisfactory Academic Progress

*(Please note: This policy may be subject to change in 1987-88. Students should review the 1987-88 Satisfactory Academic Progress Policy with the College Financial Aid Office.)*

The policy of the Los Angeles Community College District is to provide financial aid to those eligible students who are achieving satisfactory progress toward a specific educational objective. The establishment of such an objective, achievement of passing grades, and completion of courses leading to the objective are the responsibilities of the student. The assessment of satisfactory progress is the responsibility of the college. The mandate for this policy is 34 Code of Federal Regulations: 668.16(3)1, 674.9(a)(5)(d), 675.9(a)(5)(e), 676.9(a)(5)(d), 690.75(a)(2) and 177.201(a)(1)(i).

### I. Standards

A student is eligible for financial aid and is making satisfactory progress when he or she meets all of the following:

- A. Defines his or her purpose, intent or goal by filing with the college a specific educational objective identifying a degree, a certificate, or intent to transfer to another school. This objective must be declared before aid is awarded.  
Certification of ability to benefit must also be obtained by the student if he or she is not a high school graduate and does not have a certificate of General Educational Development (GED) or its equivalent.
- B. Attains or completes degree objective within six (6) semesters or its part time equivalent. Programs with prerequisites or other requirements as stated in the catalog are exempted from this limit. Example: Nursing program.
- C. Completes more than fifty percent (50%) of units attempted during the previous semester with a 2.0 (C) average. In addition, a minimum of six (6) units must be completed each semester.  
For financial aid purposes, "units attempted" is defined as classes enrolled in as of the beginning of the fifth (5th) week or later of each semester.
- D. Maintains a cumulative grade point average of at least 2.0.

### II. Application of the Standards

The satisfactory progress standards are applied:

- A. Upon publication of grades by the Records Office.
- B. Prior to the first disbursement of the academic year for continuing or returning students.
- C. Prior to the first disbursement of each term for students on probation.  
Adjustments of awards (other than Pell Grants) for unit changes will not be made during a term unless the student falls below six units. If the student reduces units during an aided term, the satisfactory progress standards will be applied on publication of grades to determine if the student has maintained eligibility.  
For the Guaranteed Student Loan Program (GSLP) progress is assessed at the time the GSL application is certified by the Financial Aid Office.

All transfer students from institutions outside the District colleges will be on probation for the initial semester unless prior satisfactory progress can be documented.

### III. Roles and Responsibilities

- A. The assessment of satisfactory progress as a condition of financial aid eligibility is the ultimate responsibility of the college. The Financial Aid Office will work in conjunction with the college to assess student progress as quickly and efficiently as possible.
- B. The counseling department assists financial aid applicants with development of educational objectives, plans or with recommendations of ability to benefit.
- C. The Financial Aid Office notifies students of their financial aid eligibility, the basis for the determination, procedures for appeal and reinstatement of aid.
- D. The Financial Aid Office, with assistance from the college, publicizes the satisfactory progress standards. This is accomplished by publication in any of the following: Financial Aid Handbooks, Consumer Information, Brochures, College Newspapers, College Catalogs or Flyers.

### IV. Probation and Disqualification

- A. A student who fails to meet the satisfactory progress standards is permitted one aided probationary semester (except under the GSL program) in which to meet the standards unless he or she has completed six (6) or more full time semesters or its equivalent.
- B. A probationary student at one college will be considered probationary at all other District Colleges.
- C. A probationary student is disqualified when he or she does not meet all the standards stated in Section I by the end of the probationary semester.

### V. Appeals

- A. A student may appeal Financial Aid disqualification by submitting a written appeal to the Financial Aid Office. The appeal must contain the reasons for appeal and other facts and documents which the student believes are applicable.
- B. A student who is subject to disqualification and who has a cumulative GPA of at least 1.75 may appeal through the appropriate channels as described in item V.A. above.
- C. The Financial Aid Office or college representative reviews the appeal and responds with a written decision to the student.
- D. The student may further appeal items outside of regulation controls through appropriate channels as described in the College Catalog.

### VI. Reinstatement

A disqualified student may be reinstated by meeting all of the standards in Section I or by the appeal process described in Section V.

### VII. Concurrent Enrollment

Students who receive aid for aggregate enrollment under a consortium arrangement are assessed for satisfactory progress on the aggregate academic record. The student is responsible for providing required records upon completion of the enrollment period.

### VIII. Course Incompletes, Repeats and Credit By Examination

- A. Requirements for course incompletes and course repeats must be satisfied in accordance with the standards described in the College Catalog.
- B. Credit-by-examination courses cannot be used for receipt of aid.

#### Additional Information

A more comprehensive explanation of satisfactory academic progress standards, financial aid programs, procedures and regulations can be obtained from the Financial Aid Office and from brochures available in the Student Activities, Counseling, Admissions, and/or Financial Aid Offices.

### Financial Aid Programs

#### Loans (Monies which must be repaid)

**A WORD OF CAUTION ABOUT LOANS:** Students obtaining any type of student loan should keep in mind that these are debts that must to be repaid just like any commercial loan. Failure to repay loans can result in a negative credit rating as well as legal action being brought against the student. Students are advised to consider all types of financial assistance before a loan is requested.

1. *Perkins Loan (Formerly National Direct Student Loan)* — Eligibility is based upon exceptional need. This loan is long term and interest free while the student is in school at least part-time (6-units minimum). Repayment period and interest (5%) begin nine months after the student either leaves school or drops below 6 units. A loan may be cancelled in part or entirely under certain circumstances. The minimum repayment per year is \$360. The maximum repayment period can extend to 10 years depending on the total amount borrowed.
2. *California Guaranteed Student Loan (CGSL)* — A long-term low interest loan is available through participating banks and other commercial lending institutions. The interest rate for new borrowers who obtain a loan under the CGSL for a period of instruction beginning on or after Sept. 16, 1983 is 8%. Students who have outstanding GSL at 7% or 9% will continue at those rates. The repayment period of the loan begins after a six month "grace" period (for 8% and 9% loans) or a nine month "grace" period (for 7% loans), following graduation, or other termination of studies or failure to enroll in at least a half-time academic program. The minimum repayment per year is \$600. The repayment period may extend to 10 years. If the student transfers to another school and does not wish to begin repayment, a deferment request must be submitted to the lender.
3. *California Loans to Assist Students (CLAS)*. As with CGSL, the California Loans to Assist Students are made by banks, Savings and Loan institutions, and Credit Unions. Unlike the CGSL, borrowers must begin to repay the loan sixty days after receiving the check. The interest rate on CLAS loans varies periodically from 12 to 14 percent.
4. *Emergency Loans*. Most colleges within the Los Angeles Community College District offer emergency loan funds to students who face financial emergencies. Contact the college Financial Aid Office for information about the availability of the program and the eligibility criteria.

**Grants (Monies which do not need to be repaid if grant conditions are met.)**

1. *Pell Grant* — Eligibility is based upon need. Grants range from \$200 to \$1,290 (depending on student budget) per year for California residents at a public community college. Nonresidents may receive higher awards to compensate for tuition costs.
2. *Supplemental Educational Opportunity Grant (SEOG)* — Eligibility is based upon exceptional need. This program provides assistance of \$100 and up for students depending on need. These grants may be awarded in combination with other financial aid such as Perkins Loan (Formerly National Direct Student Loan), College Work Study, Scholarships, or other institutionally administered aid. A student must be enrolled in a minimum of 6 units in order to be considered.
3. *Extended Opportunity Programs and Services Grant (EOPG)* — This program is designed primarily for the recruitment and assistance of students who are handicapped by language or social disadvantages, or who are identified as members of exceptionally low income families. A family of four must have income of less than \$11,999 per year to qualify. Grants range from \$50 to \$850 per year at some schools for eligible students. Students must be enrolled in and maintain 12 units per semester.

**College Work Study Program (CWS)**

The CWS program is a Federal program which enables a student to earn part of his or her financial aid award through employment. To be eligible, a student must be a U.S. citizen or permanent resident, enrolled in at least six units and maintain good academic standing while employed under the program. There is no maximum award for the school year. Hourly wages vary with the type of work and the student's experience. Work study is also available for students qualifying for financial aid during the summer.

**Veterans Services**

A Veterans Affairs Office, located in the Student Services building, provides information and services for Veterans.

West Los Angeles College programs are approved by the Veterans Administration. Consequently, the College works in close cooperation with the Veterans Administration in offering training under the provisions of Public Law 894 (Federal Education Rehabilitation Program) and Public Law 634 (War Orphans Act) and with the California Veterans Educational Institute under the provisions of Chapter 34, Title 38, United States Code.

In order to be eligible to receive subsistence, students must apply to the college, meet all admission requirements, and complete the necessary "Veterans Educational Benefits" forms (obtained from and returned to the Veterans Affairs Office). Veterans receiving assistance are responsible for knowing and observing strictly the regulations regarding change of objectives, withdrawals, overpayment, program planning and the 60-unit rule.

**Change of Objectives**

Veterans may make one change of objective during the period of their entitlement. A change of major, however, is not necessarily a change of objective. A change of major results in a change of objective when an extension of time is necessary

to complete the new objective or when a new degree is required.

**Withdrawals**

It is the responsibility of veterans to immediately inform the Office of Veterans Affairs of any changes in enrollment status (changes in units taken). The last day of veterans attendance in class must be immediately reported to the Veterans Administration in order to avoid overpayments. An excessive number of units of W may lead to academic probation or disqualification. Official withdrawal from a class is completed by filling out the appropriate form or giving written notice to the Admissions Office.

**Overpayments to Veterans**

The Veterans Administration holds both the College and the veteran liable for overpayments. The most common overpayment occurs when veterans cease to attend class. The Veterans Administration considers veterans ineligible to receive monthly benefits after their last date of attendance.

Students with career terminal objectives should select the Associate degree as their ultimate objective and not the B.S. or B.A. degree. They may then take courses which are not necessarily transfer courses.

All veterans are encouraged to seek assistance from the Veterans Office on campus with program planning and financial assistance.

**Social Security Benefits**

To receive Social Security benefits, a minimum of 12 units must be carried in the academic program. All requests for benefits originate with the Social Security Administrative Offices — not from the College.

**STUDENT SERVICES**

**Bookstore**

The WLAC Bookstore serves students and staff, providing textbooks and classroom supplies as well as apparel, sports equipment, confections, magazines, paperbacks, greeting cards, study aids, and personal care items. A special book order service is provided. Visa, Master Charge, and personal checks with California Driver's License and current Registration Card are accepted.

**Hours**

The Bookstore is open from 7:45 a.m. to 7:15 p.m. Monday through Thursday and from 7:45 a.m. to 4:00 p.m. on Friday. Telephone 202-5560 or 836-7110 x381.

**Buy Back Policy**

The Bookstore will buy back books from the College community only in quantities determined by Bookstore needs. Books are purchased during the final examination period at 50 per cent of list price if the title will be adopted for the following semester. A wholesale book company representative will buy most other titles at that time at wholesale prices. Books in an unsalable condition will be refused.

**Availability of Used Books**

The best selection of used books is available immediately before each semester and on the first day of classes.

## Child Development Center

The Center is a nurturing place for preschool children of WLAC student-parents, providing parents a low cost, safe learning environment for their preschoolers. The well-equipped facility operates under the supervision of certificated faculty. Hours of service are from 8:00 a.m. to 3:00 p.m., Monday-Friday.

The Center offers opportunities for parents to learn more about their children's development. To this end, it involves parents in the education and development of their children through parent meetings and through the children's program, fostering cooperative teamwork between parents and the CCDC faculty.

Children are eligible from two and a half years through five years of age, if they are toilet trained and in good general health. Children must attend a minimum of two sessions a week. Fees are based on a sliding scale ranging from 35¢-\$2.00 an hour.

Applications are available in Counseling, and in the Center, which is located in parking lot 5. For more information call 836-7110, Ext. 357.

## Food Service

Breakfast, lunch, and snacks are available in the College Cafeteria located on the campus upper terrace. Hours are 7:00 a.m. to 1:30 p.m. Monday through Friday.

## Services for the Handicapped

Students who have special needs because of a physical, communication, or learning disability are invited to visit the Counselor for Disabled Students or the Handicap Enabler, both in the Student Services building. Services available include the purchase of special equipment, special parking permits, aid in registration, and referral to other agencies, such as the State Department of Rehabilitation, which may assist with educational, medical, and living expenses and transportation. Students may contact the Rehabilitation office directly at 5161 Overland Avenue, Culver City (559-6140).

## Immunization Policy

The Department of Health Services wishes students to be immunized against measles. The college will require such immunization only if it is deemed essential by the Department of Health Services.

## Housing

The College does not provide residence facilities on campus. Rooms and apartments are available in nearby communities. Housing information is available in the Student Information Office (Dental Hygiene building), and some assistance in securing housing is provided by the EOP&S office.

## Job Placement Services

A student graduating from West Los Angeles College is entitled to use the job placement services of any of the other Los Angeles Community Colleges.

## Campus Procedure

A California Employment Development Department outstation is located on campus to provide job listing information and referrals to WLAC students and members of the community.

## Parking Areas and Transportation

Well-lighted parking facilities are available on campus for over 1,000 cars. All vehicles must have a current parking permit visible (21113A V.C.); visitors may obtain temporary permits from the Police and Safety Office in Building A9. (See campus map for short-term visitor and handicap parking areas.)

All California vehicle code rules and regulations are applicable at the College. The campus speed limit is 8 m.p.h.

WLAC is served by Culver City Bus Lines 3 and 4, which connect with Southern California Rapid Transit District buses. The College can be reached from the San Diego Freeway north and south by exiting at the Jefferson Boulevard off-ramp. It can also be reached from the Santa Monica Freeway east and west by exiting at the Overland off-ramp and proceeding south to Freshman Drive.

## Parking Lot Disclaimer

The Board of Trustees of the District will not be responsible for damage, loss of vehicle or its contents unless the District is liable under the Government Codes, including but not limited to Government Codes 810 to 966.6 inclusive.

## Safety and Police Services

The Los Angeles Community College District maintains a Police Department. All officers of this department are peace officers of the state of California and are fully trained in the Los Angeles County Sheriff's Department Academy. They exceed all requirements necessary for police employment.

The Police Department is located adjacent to the Dental Hygiene building (A9). The office is open from 8 a.m. to 10 p.m. The College Police are on campus 24 hours a day, throughout the year. The Police Department handles civil and criminal complaints and illness and injury problems. The Police also provide a lost and found service, an auto service, parking decals and general assistance relating to information about the campus. Telephone 836-7110 x314 or 315.

## STUDENT ACTIVITIES

### Student Government/Associated Students Organization

Extensive power of self-government is placed in the hands of the Associated Students Organization. Such power enables students to develop and express initiative in terms of the common good. Membership in the ASO is obtained by paying a fee of \$7.00.

Governed by the Executive Council, the Associated Students Organization conducts activities on behalf of students.

In accordance with the policies of the Board of Trustees, the Executive Council and the Finance Committee actively participate in the management of the business affairs of the Associated Students. Board of Trustees rules govern the collection, deposit and expenditure of funds. All records are subject to annual audit by the Board of Trustees.

The Dean of Student Services, or the Dean's representative, represents the faculty and administration of the College as sponsor and advisor of the Executive Council, the Finance Committee and the Inter-Club Council.

## Qualifications for ASO Officers (Administrative Regulation E-22)

Administrative Regulation E-22 pertains to elected Associated Student Organization (ASO) officers, officers appointed to elected positions and heads of ASO Standing Committees.

Administrative Regulation E-22 does not apply to clubs, club representatives, ASO special committees and all-college committees.

### Administrative Regulation E-22

A student cannot be a candidate for ASO office if he or she has served more than four semesters in a student government elected and/or appointed office, or in any office or position where he or she voted on the expenditure of ASO funds in any college.

1. An officer may serve a fifth semester if he or she is eligible at the time of assuming office (e.g., has served three semesters and is a candidate for an office with a one-year term).
2. Ten weeks or more of student service in office or service anytime after the tenth week, will be counted as a full semester.

All students running for office or voting for the student officers must be paid members in good standing in the Associated Students Organization at the college where the election is being held.

A student officer or a candidate for office must be actively and continuously enrolled, attending and successfully completing classes in a minimum of nine units (Day Students), or six units taken solely in the evening and/or on Saturday (Evening Students), with a cumulative and current GPA of 2.0 at the College during the semester in which the student government office is applied for or held. All units must be taken at the college where the office is sought or held. Student officers reducing units below the required number will be required to forfeit their student offices. Unit checks will be made to assure that students maintain eligibility at least every five (5) weeks.

A candidate for student office must have a cumulative grade-point-average of 2.0 or better for all college work completed within the past two years and the number of "W" units must not exceed the number of units completed during that two-year period.

NOTE: Individual colleges, in their ASO constitutions may set forth standards for office which are higher than those listed above.

## Student Trustee Election Procedure

The Los Angeles Community College District conducts an election annually whereby each student in the District has an opportunity to be involved in the process of selecting a student representative to the Los Angeles Community College District Board of Trustees.

The process contained in Regulation E-78 provides for a thorough evaluation of the candidates' qualifications and insures an equal opportunity for any individual from any District college campus to seek the position of student representative to the Los Angeles Community College District Board of Trustees.

In accordance with existing law, candidates for Student Trustee must:

1. Be residents of the District.
2. Be currently enrolled at a District college.
3. Be a full-time student. Day students: 9 units; evening students: 6 units.
4. Plan to continue as a District resident and enrolled as a District student through the one-year term of office.
5. Have completed a minimum of 12 units and a maximum of 60 units of college work. Exceptions on the maximum unit requirement will be made for students enrolled in recognized Los Angeles Community College District programs where the combination of program units and prerequisites may exceed 60 units. Exceptions will be decided upon by the campus Election Committee.

For further information, contact the Office of the President.

## Student Clubs and Organizations

Believing that students will enrich their college experience by participation in extracurricular activities, the College is proud of its active club program. Principal support for club programs comes from the Inter-Club Council, composed of a representative from each campus club and chaired by the vice-president of the Executive Council.

In conformity with the California Education Code, the only recognized clubs are those chartered by the Executive Council. Thus, the College assumes no responsibility for activities of unchartered groups, including off-campus social organizations that consist of students or former students. Membership in secret organizations is prohibited by state law.

## Colors and Nickname

The College colors, selected by the students of West Los Angeles College in 1969, are royal blue and gold. The College nickname is the "Oilers," which was selected because of the proximity of the surrounding oil fields.

## Publications

### College Newspaper

The College newspaper is published as a learning experience, offered under the College journalism instructional program. The editorial and advertising materials published by the newspaper, including any opinions expressed, are the responsibility of the student newspaper staff. Under appropriate State and Federal court decisions these materials are free from prior restraint by virtue of the First Amendment to the United States Constitution. Accordingly, materials published, including any opinions expressed, should not be interpreted as the position of the Los Angeles Community College District, the College, or any District or College officer or employee.

### Campus Newspaper

The "Oiler" is the newspaper which serves the more than 8,000 students, faculty, administrators and classified staff who make up the West Los Angeles College community. The "Oiler" is produced principally as a vehicle to convey — by means of news, feature articles, photo coverage and commentary — what is significant to members of the collegiate community.

Students wishing to participate in publishing the "Oiler" should enroll in appropriate journalism classes.

## Intercollegiate Athletics and Eligibility

West Los Angeles College is a member of the Southern California Athletic Conference along with Antelope Valley College, Barstow College, Cerro Coso College, Chaffey College, College of the Desert, East Los Angeles College, Los Angeles City College, Los Angeles Harbor College, Los Angeles Mission College, Los Angeles Trade-Technical College, Los Angeles Southwest College and Los Angeles Valley College, Marymount College, Mt. San Jacinto College, Rio Hondo College, San Bernardino Valley College, and Victor Valley College. Intercollegiate athletic competition is offered in baseball and basketball. Football is hosted by the Southern California Conference.

Competition and eligibility are governed by the Southern California Athletic Conference, Southern California Conference and the California Association of Community College Athletic codes. Intercollegiate competition for women is offered in tennis, volleyball, and track and field. All questions pertaining to athletic eligibility should be directed to the Conference Administrative Representative (Mr. Charles Brown) or the Director of Athletics (Mr. Jim Raack).

## STUDENT CONDUCT

### Standards of Student Conduct

A student enrolling in one of the Los Angeles Community Colleges may rightfully expect that the faculty and administrators will maintain an environment in which there is freedom to learn. This requires that there be appropriate conditions and opportunities in the classroom and on the campus. As members of the College Community, students should be encouraged to develop the capacity for critical judgment; to engage in sustained and independent search for truth; and to exercise their rights to free inquiry and free speech in a responsible, non-violent manner.

Students shall respect and obey civil and criminal law, and shall be subject to legal penalties for violation of laws of the City, County, State, and Nation.

Student conduct in all of the Los Angeles Community Colleges must conform to District and College rules and regulations. Violations of such rules and regulations, for which students are subject to disciplinary action, include, but are not limited to, the following:

#### Board Rule 9803.10

Willful disobedience to directions of College officials acting in the performance of their duties.

#### Board Rule 9803.11

Violation of College rules and regulations including those concerning student organizations, the use of College facilities, or the time, place, and manner of public expression or distribution of materials.

#### Board Rule 9803.12

Dishonesty, such as cheating, or knowingly furnishing false information to the Colleges.

#### Board Rule 9803.13

Unauthorized entry to or use of the College facilities.

#### Board Rule 9803.14

Forgery, alteration, or misuse of College documents, records, or identification.

#### Board Rule 9803.15

Obstruction or disruption of classes, administration, disciplinary procedures, or authorized College activities.

#### Board Rule 9803.16

Theft of or damage to property belonging to the College, a member of the College Community, or a campus visitor.

#### Board Rule 9803.17

Disorderly, lewd, indecent, obscene, or offensive conduct or expression which interferes with the College's primary educational responsibility or adversely affects a student's standing as a responsible member of the College Community.

#### Board Rule 9803.18

Assault or battery, abuse, or any threat of force or violence directed toward any member of the College Community or campus visitor engaged in authorized activities.

#### Board Rule 9803.19

Use, possession, distribution, or presence on a campus or at any college-sponsored function while under the influence of alcoholic beverages, narcotics, or other dangerous drugs, such as marijuana and lysergic acid diethylamide (LSD), except as expressly permitted by law.

#### Board Rule 9803.20

Possession, while on a college campus or at a college-sponsored function, of any object that might be used as a lethal weapon is forbidden all persons except members of faculty-sponsored, National Rifle Association-affiliated clubs while participating in sanctioned club activities, sworn peace officers, police officers, and other governmental employees charged with policing responsibilities.

## Student Responsibility

The College believes that education requires the concentrated effort of both the teacher and the student. Consequently, the student is held responsible for providing the time and personal effort and motivation necessary to meet the requirements of all his courses. This would include regular and prompt attendance, adequate study time, and careful adherence to the specific course work requested by the instructor.

## Smoking Policy

Smoking is not permitted in any classroom or other enclosed facility which any student is required to occupy or which is customarily occupied by nonsmoking students.

## Recording Devices

State law in California prohibits the use of any electronic listening or recording device in a classroom without prior consent of the teacher and College administration. Any student who needs to use electronic aids must secure the con-

sent of the instructor. If the instructor agrees to the request, a notice of consent must be forwarded to the Dean of Instruction for approval.

## Sexual Harassment Policy

It is the policy of the Los Angeles Community College District to provide an educational, employment and business environment free of unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment, as defined and otherwise prohibited by state and federal statutes.

It shall be a violation of this policy for anyone who is authorized to recommend or take personnel or academic actions affecting an employee or student, or who is otherwise authorized to transact business or perform other acts or services on behalf of the Los Angeles Community College District, to engage in sexual harassment.

Within the educational environment, sexual harassment is prohibited between students, between employees and students, and between nonstudents and students. Within the work environment, sexual harassment is prohibited between supervisors and employees, between employees, and between nonemployees and employees.

A copy of the District Sexual Harassment Policy and Procedures may be obtained in the College Student Affairs Office. Inquiries regarding the Sexual Harassment Policy should be directed to the College Title IX/Sex-Equity Coordinator, Dr. Jewel D'Aloia, Counselor, ext. 362.

## Student Discipline Procedures

Community college districts are required by law to adopt standards of student conduct along with applicable penalties for violation (Education Code Section 66300). The Los Angeles Community College District has complied with this requirement by adopting Board Rule 9803, Standards of Student Conduct (See above).

The District has adopted Board Rule 9804, Student Discipline Procedures, to provide uniform procedures to assure due process when a student is charged with a violation of the Standards of Student Conduct. All proceedings held in accordance with these procedures shall relate specifically to an alleged violation of the established Standards of Student Conduct. These provisions do not apply to grievance procedures, student organization councils and courts, or residence determination and other academic and legal requirements for admission and retention. Disciplinary measures may be taken by the College independently of any charges filed through civil or criminal authorities, or both.

Copies of the Student Discipline Procedures are available in the Office of the President.

## Student Grievance Procedures

The purpose of the Student Grievance Procedures is to provide a prompt and equitable means for resolving student grievances. The procedures enumerated in Administrative Regulation E-55 shall be available to any student or applicant for admission, who believes a College decision or action has adversely affected his or her status, rights, and/or privileges

as a student. The procedures shall include, but not be limited to, alleged violations of Title IX of the Higher Education Amendments of 1972 (and applicable regulations), grievances relating to disabled students as defined by Section 504 of the Rehabilitation Act of 1973, grievances relating to sexual harassment as defined in the District's Sexual Harassment Policy (see below), problems relating to financial aid, and grievances relating to course grades to the extent permitted by Education Code Section 76224(a). Section 76224(a) provides:

"When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final."

For additional information regarding the procedures for filing a student grievance, or for copies of the adopted Student Grievance Procedures, contact the Office of the President.

### Campus Procedure

Before filing a grievance, each student with a complaint shall first try to resolve the problem informally with the person with whom the student has the complaint, that person's immediate supervisor, or an appropriate administrator.

If this process fails and the student chooses a formal grievance hearing, he must file for the hearing with the campus ombudsman within 20 days after the first informal contact. The College shall provide a hearing committee, and the ombudsman shall schedule hearings and serve to ensure a full and fair resolution of the grievance. The office of the Dean of Student Services will provide the name and location of the ombudsman.

## Role of the Ombudsperson

Pursuant to the Student Grievance Procedure, the College Ombudsperson has been appointed by the President to assist the student in obtaining informal resolution of his or her grievance. If an informal resolution is not obtained, then the Ombudsperson will arrange for the formation of a Grievance Hearing Committee to hear the student's grievance and will facilitate the hearing process pursuant to District Administrative Regulation E-55. The college Ombudsperson's name and telephone number can be obtained by calling the President's office at ext. 324/325.





# ACADEMIC RESOURCES

## FACILITIES

The College is especially proud of its modern Learning Resource Center (LRC), which includes both the Library and the Instructional Center. Other valuable resources include the Data Center, the Airport Center, the Dental Hygiene Laboratory, and the Nursing Building.

## Instructional Center

Housed on the first floor of the LRC, the Instructional Center provides auto-tutor machines, pacers (for reading skill improvement), audio cassettes and players, programmable slide carousels, filmstrips, video cassettes and players, typewriters, electronic calculators, special equipment for handicapped students, and Telecine Control, which governs the audio/video information system.

Telecine Control allows students and instructors to control audio and visual programming at their convenience, to be shown throughout the campus. Many instructors take advantage of it to create their own supplementary class materials. They also supplement class work through productions done in the College's Television Studio. This studio also benefits students by giving them the opportunity to rehearse oral reports and speeches and to present seminars and dramatic works on television. Closed circuit video reception is available to most classrooms.

Computer-assisted instruction, using Apple II+ micro-computers and color monitors is also available in the Instructional Center. Subjects in which programming is available include biology, chemistry, ecology, electronics, English, French, mathematics, physics, political science, psychology, physiology, scientific method, statistics, Spanish, typing, and vocabulary. Time on the microcomputers is available by reservation in LRC-124.

## Learning Resources Center/Library

The College library, located in the LRC, houses an extensive collection of both print and non-print materials.

The book collection of over 57,000 volumes includes the Main Collection (which circulates for two weeks), and the Reserve Book Collection (circulating for shorter periods), containing materials needed for special class assignments and a special collection of paperback books.

Over 300 subscriptions of magazines, journals, and newspapers are currently received, with back issues available on microfilm and microfiche. Audio cassettes, cassette players, microfiche, and microfiche readers are available for circulation.

The Library's computerized circulation system with on-line card catalog, backed up with a traditional card catalog, makes both research and check-out more efficient. All material in the LRC, including Instructional Center audio-visual programs, is indexed in the catalog. A microfiche collection of catalogs for most colleges in the United States is also available.

The Reference Section provides government documents, current pamphlets, encyclopedias, indexes, and maps. Skilled librarians are always available to assist students in their research. A handbook to the library is free to students and library tours are conducted regularly.

The Library has facilities to match all learning styles, with private study booths, group study and conference rooms, and lounge-like open areas. Typing rooms, with both manual and electric typewriters, and photocopy machines are available. Hours of operation for the Library are 7:45 a.m. to 8 p.m. Monday through Thursday, 7:45 a.m. to 2:00 p.m. Friday and 10 a.m. to 2:00 p.m. Saturday.

## Computer Center

The College operates a completely equipped Data Center available to its students. The Data Center utilizes on-line hardware running the three most commonly used systems: MS-DOS, CP/M, and Unix. Hardware currently utilized includes 16 networked IBM-PC's, 30 independent IBM-PC's, an IBM-AT and Multi-user WICAT, Altos, and Alpha-Micro-systems.

This hardware supports all of the commonly used programming languages including APL, Assembler (Intel 8086 and Motorola 68000), BASIC, C, COBOL, FORTRAN, PASCAL, and RPG (IBM system 34 version). Commonly used software packages, such as Symphony, Dbase III, Supercalc, and WORDSTAR are available for student use.

The Data Center is available for student use Monday through Saturday and is staffed by college employees and student tutors.

## Language Lab

Located on the first floor of the LRC, the Language Lab houses six micro-computers which enable students to test and drill themselves in grammar and vocabulary. Its video cassette decks and monitors allow students to screen instructional videos, including programs issued by foreign governments as well as those prepared by university or private companies — all using "state-of-the-art high technology". These "multiple delivery technologies" complement the lab's audio cassette decks, which provide a more traditional mode of language instruction.

## Typing Center

The College's Typing Center provides 40 single-element Royal typewriters with Kodak projectors and headphones presenting slide and cassette tape instructions for each step of beginning, intermediate and advanced typing on a self-paced basis. Students attend five hours per week for Office Administration course credit on an open-entry, open-exit, modularized basis. The Center is open M-F from 8 a.m.-2 p.m. and M-Th from 5-9 p.m.

## Electronics Laboratory

Electronics students use modern test equipment, including industrial quality signal generators, volt-ohm milliammeters, digital meters, transistor testers, and time-base oscilloscopes.

## Aviation Facilities

While receiving training in hydraulic system troubleshooting, sheet metal repairs, covering and finishing, welding, and alignment and rigging of aircraft, aviation maintenance students have access to Lycoming, Continental, and gas turbine engines. An excellent ignition and fuel metering systems laboratory and a propeller and lubrication shop are also available. Aviation Electronics students use a repair station and three well-equipped laboratories as they work through their hands-on, modularized sequence of courses.

## Dental Hygiene Facility

Classroom and laboratory facilities are located on campus at West Los Angeles College. The Dental Clinic facilities are located in the Health Science Center at UCLA and at Wadsworth Veterans Hospital. Students also observe and participate in various specialty clinics at UCLA which include radiology, pedodontics, periodontics, orthodontics, oral surgery and hospital dentistry.

## Word Processing Laboratory

Word processing students have access to the IBM Displaywriter and the IBM-PC, including the following software packages: Displaywriter, Multimate, PFS Write, and WordStar.

## ACADEMIC ASSISTANCE

### Tutorial Services

A campus-wide, free Tutorial Services Program provides assistance in many subjects, including study skills and test-taking. Arrangements may be made for individual and group tutoring (by instructor-certified tutors) during day and evening in LRC-138. This personal tutoring program is supplemented by the Computer-Assisted Instruction Center in LRC-124, offering Apple II+ and microcomputers and instructional software in a host of subjects. The center is also available to those proficient in WordStar or Applewriter who wish to use microcomputers for essay writing. These services are jointly sponsored by the Academic Affairs and the Student Services Office.

### Workshops

Students may receive course credit for concentrated study in the Business (Business 99), Chemistry (Chemistry 88), Study Skills (Psychology 25), Writing Skills, and Mathematics (Mathematics 88) Workshops, which are staffed by specially trained tutors and instructors. These open-entry, open-exit workshops provide help with pertinent subject areas. Enrollment details are printed in the Schedule of Classes. The Writing Skills Workshop is also available on a drop-in basis to any student wanting help with organizing, writing, and revising papers, with technical problems, and with taking essay exams.

## INSTRUCTIONAL ALTERNATIVES

### Instructional Television (ITV)

The Los Angeles Community Colleges offer an Instructional Television Program open to all students. Instructional Television (ITV) provides an opportunity to take transferable college credit courses via television. Students interested in supplementing existing campus classes or adding classes for those times when campus attendance is not possible, should contact the Instructional Television Office, Los Angeles Valley College, 5800 Fulton Avenue, Van Nuys, California 91401, (818) 901-8935 or (213) 488-0447 for registration information.

### International Education Program Study Abroad Classes

College credit classes are offered for the Los Angeles Community College District by the International Education Program. With instructors selected from all nine colleges in the District, classes are taught in over twenty countries around the world. Scheduled at various times throughout the year, opportunities for study currently include Spanish language, history, and art instruction in Mexico and Spain, French in Paris, German in Munich, Italian in Italy, Portuguese in Brazil, ecology in the Caribbean and Mexico, art and theater in Europe, music, humanities and child development in England, cinema in France and travel familiarization in the South Pacific. On-site investigations of the history and culture of other nations, provide students and their instructors with some of the best educational experiences of their lives. The LACCD is a member of California Colleges for International Education, a consortium of colleges offering semester programs in Paris, England, Germany, Mexico, China, Japan, and Spain. The International Education Program also cooperates with the Community Services Program at District colleges in offering non-credit travel study programs.

The International Education Program expresses the shared commitment of the Los Angeles Community Colleges in furthering the development of international and intercultural awareness. Call (213) 621-2401 for further information.

### Flexible Scheduling of Classes

To provide flexibility for the student, courses are offered in modules as well as semester structure at a wide variety of times and places.

#### Modular Classes

Modules are components of a course offered for fewer units and hours than the full course, usually on a short-term basis. When all the modules of a course are taken, they will equal the materials and credit of the full course. The modules are usually offered in a regular sequence and can be identified by a letter (A, B, C, etc.) following the course number.

#### Evening Classes

Evening classes parallel day classes in prerequisites, course content, and expected preparation time. Many specialists from business and industry join the day faculty to teach these classes.

### **Outreach (Off-Campus) Credit Classes**

Serving students who cannot attend classes on campus because of a lack of transportation or time, the Outreach program offers credit classes in approximately 12 locations, including West Hollywood, Crenshaw, Marina Del Rey, LAX, and Westwood. A complete list of Outreach classes and locations appears in the Schedule of Classes. Further information is available at 213-822-7873.

### **Summer Session**

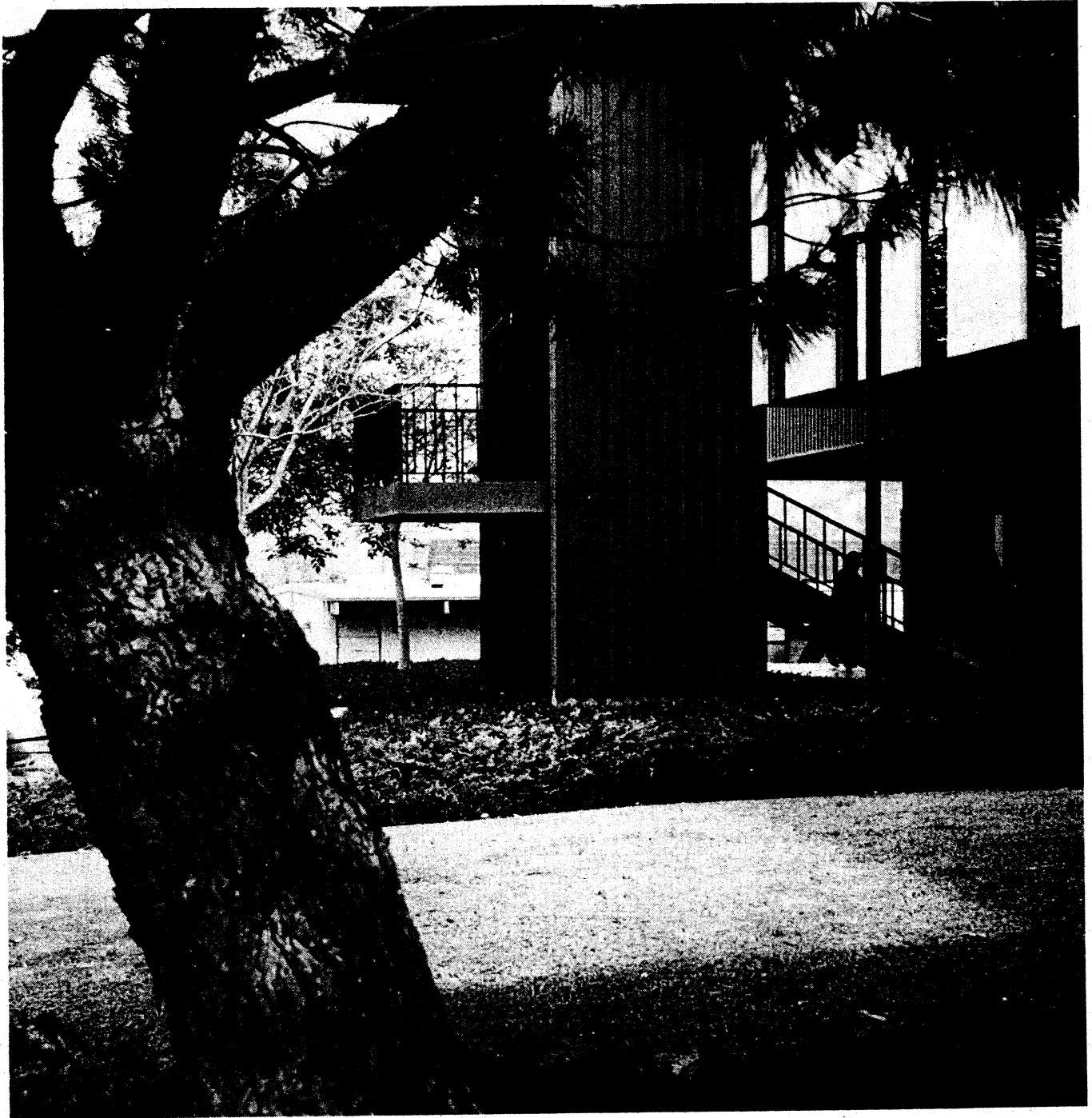
Summer Session will be offered subject to approval by the Board of Trustees.

### **Community Services/Continuing Education**

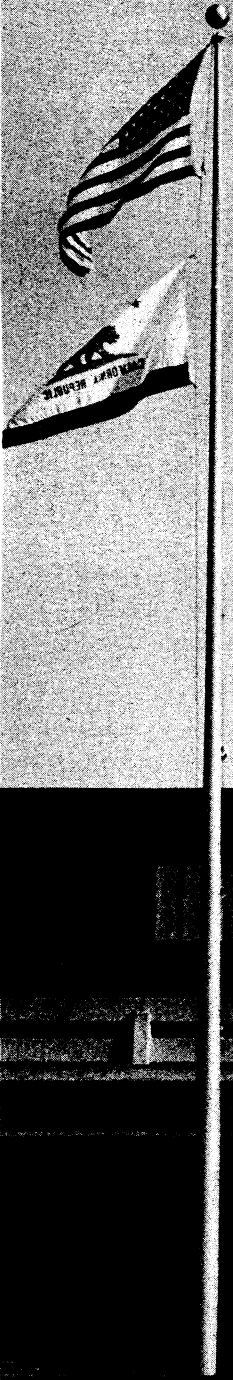
Community Services offers short term, non-credit educational, cultural, and recreational programs for a nominal fee during fall, winter, spring, and summer quarters.

Workshops in such areas as parenting, personal health, and gourmet cooking are scheduled, as are continuing education courses such as financial planning, English skills, data processing, small business management, and real estate.

Pre-registration is required for all activities, since space is limited. Community Services brochures and registration information are available by calling 213-559-7993 or 213-202-5530.



# WEST LOS ANGELES COLLEGE



# ACADEMIC POLICES

## ENROLLMENT AND ATTENDANCE

### Open Enrollment

Unless specifically exempted by law, every course for which State aid is claimed is fully open to any person who has been admitted to the College and who meets the appropriate academic prerequisites.

### Units of Work/Study Load

College courses require study, library investigation and laboratory or field work to supplement regular class attendance. No student should plan more than 18 units of work in any one semester. This refers to all study programs which may be a combination of day and evening division work, as well as the regular day program, ITV courses or courses at other colleges. No student may enroll for more than 18 units during the fall or spring semester without the approval of the Dean of Student Services. Students may enroll for a maximum of 7 units during the summer session.

**Students are strongly advised not to attempt full-time employment and full-time college work together. It is the responsibility of all students to budget their time for study and preparation for class assignments.**

Generally, two hours of outside preparation are required for each hour of class lecture.

### Attendance

The student is expected to attend every meeting of all classes for which he or she is registered. A student absent from classes for emergency reasons must inform his or her instructor of the reason for the absence.

Students who have preregistered for a class and who do not attend the first meeting of the class forfeit their right to a place in the class. Mitigating circumstances may be considered by the instructor. Whenever absences "in hours" exceed the number of hours the class meets per week, the student may be excluded from class by the instructor.

*It is the student's responsibility to drop from class. Any drops or exclusions that occur between the end of the 4th week and the end of the 14th week will result in a "W" on the student's record which will be included in the determination of progress probation. Drops are not permitted beyond the end of the 14th week. An evaluative grade ("A", "B", "C", "D", "F", "CR", or "NC") will be assigned to students who are enrolled past the end of the 14th week even if they stop attending class, except in cases of extenuating circumstances. After the last day of the fourteenth week (or 75% of the time the class is scheduled, whichever is less) the student may withdraw from class upon petition demonstrating extenuating circumstances and after consultation with the appropriate faculty. For further details, refer to "W" section of "Grading Symbols and Definitions."*

### Campus Procedure

Students are encouraged to advise their instructors of anticipated absences.

### Auditing Classes

Students may be permitted to audit a class under the following conditions:

1. Payment of a fee of \$15 per unit. Students enrolled in classes to receive credit for six or more semester units shall not be charged a fee to audit three or fewer semester units per semester.
2. No student auditing a course shall be permitted to change his or her enrollment in that course to receive credit for the course.
3. Priority in class enrollment shall be given to students desiring to take the course for credit.

### Concurrent Enrollment

Concurrent enrollment in more than one section of the same course during a semester is not permitted, with the exception of certain Physical Education classes on a limited basis.

Concurrent enrollment in courses which are cross-referenced to each other is not permitted (i.e., courses designated "same as" in the District Directory of Educational Programs and Courses).

Violation of this regulation will result in exclusion from class and denial of course credit in both courses.

Enrolling in classes scheduled or conducted during overlapping times is not permitted. In addition to exclusion from both classes and denial of credits, violators will be subject to disciplinary action (See Standards of Student Conduct).

### Final Examinations

The College assumes that a student registers in good faith for a full semester's work inclusive of all course requirements. The College Calendar clearly indicates the beginning and the end of each semester, and the instructional program is predicated upon this time plan.

All students, as a part of their course work, are required to take final examinations in all subjects in accordance with an examination schedule made available each semester by the Dean of Instruction. No student will be excused from final examinations.

No special final examinations are given at times other than scheduled except through the Office of the Dean of Instruction, and no such examination will be offered **before** the scheduled examinations.

### Adding and Dropping Classes

Students enrolled in the college may add a class, after the beginning of classes, with the permission of the instructor. The instructor furnishes the student with a card which is brought to the Admissions Office. The information is transferred to a card for keypunching, and the instructor's card is stamped and returned to the student. A validated identification card is required for this purpose.

Students may drop a course up to the fourteenth week of school in the Admissions Office. Courses dropped during the first four weeks of the semester will not appear on their records; courses dropped during the fifth through fourteenth week will show up automatically as a W. It is the student's

responsibility to drop classes even though the instructor may drop them for non-attendance. These procedures also require a valid i.d. card.

## Withdrawal from the College

The College recognizes that a student does not leave college for superficial reasons. Students in need of mature advice should see a counselor prior to withdrawal.

Official withdrawal requires completion of a form in the Admissions Office or a written notice to that office. A student who does not comply with these requirements may receive failing grades. See the calendar in the class schedule for the deadlines for withdrawal. Information on class withdrawal policy is included under *Grading Symbols and Definitions*.

## COURSE CREDIT

### Credit for Prerequisites

Students may not concurrently enroll in and receive credit for an advanced course and its prerequisite(s).

Students may not enroll in and receive credit for the prerequisite(s) to an advanced course if they have previously completed the advanced course.

Violation of this regulation will result in exclusion from class and denial of course credit.

### Credit by Examination

The College President may designate courses listed in the College Catalog wherein any student who satisfies the following requirements may be granted credit by examination in lieu of enrolling in and completing such courses:

- a. Be currently registered and have a minimum cumulative grade-point-average of 2.0.
- b. Have completed 12 units within the Los Angeles Community College District.
- c. Is not currently enrolled in, or has completed a more advanced course in this discipline.

### Limitation on Petitioning for Examination

The maximum number of units for which a student may petition for credit by examination at the College shall be 15 units.

### Maximum Units Allowable

The maximum number of credit by examination units with a grade of "CR" that may be applied toward graduation requirements shall be limited to 15 units.

### Acceptance Towards Residence

Units for which credit is given pursuant to the provision of this section shall not be counted in determining the 12 units of credit in residence requirement.

### Recording of Grade

Credit by examination shall be entered on the student's record as "CR" or "NC," as provided by the District *Grading Symbols and Definitions Policy*. The student's record shall also be annotated "Credit by Examination."

## Course Repetition: Special Circumstances

Repetition of courses for which substandard work has not been recorded shall be permitted only upon advance petition of the student and with written permission of the College President or designee based on a finding that circumstances exist which justify such repetition. In such repetition under special circumstances, the student's permanent academic record shall be annotated in such a manner that all work remains legible. Grades awarded for repetition under special circumstances shall not be counted in calculating a student's grade-point-average.

## Course Repetition and Activity Repetition

Certain courses in the Catalog may be repeated for additional unit credit. These courses, marked "RPT" in the Course Section of the Catalog, allow the student an expanded educational experience each time the student enrolls in the course. Enrollment in these courses is limited in any similar activity to a maximum of three repeats for a total of four (4) enrollments, regardless of the repeatability of individual courses. The activity limitation also applies to courses which are not repeatable in themselves but for which similar activities exist. For example, there are several similar course titles in Art, Music, Theater, and Physical Education which are considered to be the same activity. A student may enroll four times in courses which are considered to be the same activity, such as twice in Theater 279, Musical Theater (RPT 3), and twice in Theater 280, Musical Theater Workshop (RPT 3). Any combination may be used as long as 4 enrollments in one activity is not exceeded.

This activity enrollment limitation begins with the Fall 1983 term. Excess enrollment will result in administrative drop. Consult a counselor for the latest restricted activity enrollment list.

NOTE: Whenever the student's record is reviewed for the purpose of determining his or her unit credits, all of the student's record is reviewed, not just the course work since the beginning of Fall 1983.



## Credit for Courses Completed at Non-Accredited Institutions

Students transferring from non-accredited institutions may, after successful completion of 30 units with a "C" or better grade-point-average, apply for up to 15 units of credit in courses which parallel the offerings of the College.

The following exceptions may be made to this regulation:

### 1. Credit for Graduates of Diploma Schools of Nursing.

The following amount of credit is authorized for graduates of Diploma Schools of Nursing who enter the Los Angeles Community Colleges:

- a. Thirty (30) semester units of credit will be given to graduates of Diploma Schools of Nursing under the following conditions:
  - 1) The student presents a valid, current California certificate as a licensed registered nurse to the designated administrative officer;
  - 2) The student has completed at least 12 units of credit at the College to which application is made.
- b. The work of graduates of Diploma Schools of Nursing outside California will be recognized if the student has a valid, current California license. Credit will be given even though the license was obtained on the basis of reciprocity with another state rather than by examination.
- c. Candidates for the Associate of Arts or Associate of Science Degree are exempt from Health Education as a general education requirement. No other general education requirements will be waived.
- d. Additional courses in Nursing may be taken for credit only upon approval of the Nursing Department.
- e. The transcript is not to reflect the major field nor should the diploma, where given, indicate Nursing as a major.

### 2. Credit for Military Service Training

Students who are currently serving in or have served in the military service, may, after successful completion of at least one course with the Los Angeles Community Colleges, request an evaluation of credit earned through military service training schools and/or military occupational specialties.

### 3. Credit for Law Enforcement Academy Training

Credit for basic recruit academy training instructional programs in Administration of Justice or other criminal justice occupations shall be granted as follows:

- a. Credit will be given for training from institutions which meet the standards of training of the California Peace Officers Standards and Training Commission.
- b. A single block of credit will be given and identified as academy credit.
- c. One (1) unit of credit may be granted for each 50 hours of training, not to exceed *ten (10) semester units* or their equivalent.

Credits granted by an institution of higher education for basic recruit academy training, under the above provisions, shall not be identified as equivalent to any required course in the major.

## GRADES

### Grades and Grade Changes

The instructor of the course shall determine the grade to be awarded to each student in accordance with the preceding *Grading Symbols and Definitions Policy*. The determination of the student's grade by the instructor is final in the absence of mistake, fraud, bad faith, or incompetency. The removal or change of an incorrect grade from a student's record shall only be done upon authorization by the instructor of the course.

In the case of fraud, bad faith, or incompetency, the final determination concerning removal or change of grade will be made by the College President.

### Grading Symbols and Definitions

Only the symbols in the grading scale given in this section shall be used to grade all courses offered in fulfillment of the requirements for an associate or baccalaureate degree, a certificate, diploma, or license.

Grades shall be averaged on the basis of the point equivalencies to determine a student's grade-point-average, using the following evaluative symbols:

| SYMBOL | DEFINITION  | GRADE POINT |
|--------|---|-------------|
| A      | Excellent   | 4           |
| B      | Good  | 3           |
| C      | Satisfactory  | 2           |
| D      | Passing, less than satisfactory   | 1           |
| F      | Failing   | 0           |
| CR     | Credit (at least equal to a "C" grade or better — units awarded are not counted in GPA) |             |
| NC     | No-Credit (equal to a "D" or "F" grade — units are not counted in GPA)                  |             |

(CR and NC grades may be given only in courses authorized by the District *Credit/No-Credit Option* and *Credit by Examination Policies*.)

The following non-evaluative symbols may be entered on a student's record:

| SYMBOL | DEFINITION   |
|--------|--|
| I      | <i>Incomplete</i><br>Incomplete academic work for unforeseeable, emergency, and justifiable reasons at the end of the term may result in an "I" symbol being entered in the student's record. The condition for removal of the "I" shall be stated by the instructor in a written record.<br><br>This record shall contain the conditions for removal of the "I" and the grade assigned in lieu of its removal. This record shall be given to the student, with a copy on file in the college Admissions Office until the "I" is made up or the time limit has passed. A final grade shall be assigned when the work stipulated has been completed and evaluated, or when the time limit for completing the work has passed. |

The "I" symbol shall not be used in calculating units attempted nor for grade points. **THE "I" MAY BE MADE UP NO LATER THAN ONE YEAR FOLLOWING THE END OF THE TERM IN WHICH IT WAS ASSIGNED.** The student may petition for a time extension due to unusual circumstances.

Note: Courses in which the student has received an Incomplete ("I") may not be repeated unless the "I" is removed and has been replaced by a grade of "D" or "F". This does not apply to courses which are repeatable for additional credit.

#### IP *In Progress*

The "IP" symbol shall be used only in those courses which extend beyond the normal end of an academic term. "IP" indicates that work is "in progress," but that assignment of a substantive grade must await its completion. The "IP" symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate evaluative grade and unit credit shall be assigned and appear on the student's record for the term in which the required work of the course is completed. The "IP" shall not be used in calculating grade-point-averages. If a student enrolled in an "open-entry, open-exit" course is assigned "IP" at the end of an attendance period and does not complete the course during the subsequent attendance period, the appropriate faculty will assign an evaluative symbol (grade) as specified above to be recorded on the student's permanent record for the course.

#### W *Withdrawal*

Withdrawal from a class or classes shall be authorized through the last day of the fourteenth week of instruction or 75% of the time the class is scheduled to meet, whichever is less.

No notation ("W" or other) shall be made on the record of a student who withdraws during the first four weeks, or 30% of the time the class is scheduled, whichever is less.

Withdrawal between the end of the fourth week (or 30% of the time the class is scheduled to meet, whichever is less) and the last day of the fourteenth week of instruction (or 75% of the time the class is scheduled to meet, whichever is less) shall be authorized after informing the appropriate faculty. A student who remains in class beyond the fourteenth week or 75% of the time the class is scheduled shall be given a grade other than a "W," except in cases of extenuating circumstances.

After the last day of the fourteenth week (or 75% of the time the class is scheduled, whichever is less), the student may withdraw from class upon petition demonstrating extenuating circumstances and after consultation with the appropriate faculty. Students should obtain a petition in the

Admissions Office. Extenuating circumstances are verified cases of accidents, illness, or other circumstances beyond the control of the student. Withdrawal after the end of the fourteenth week (or 75% of the time the class is scheduled, whichever is less) which has been authorized in extenuating circumstances shall be recorded as "W."

The "W" shall not be used in calculating units attempted nor for the student's grade-point-average.

"W's" will be used as factors in progress probation and dismissal.

## Credit/No-Credit Option

The College President may designate courses in the College Catalog wherein all students are evaluated on a "credit/no-credit" basis or wherein each student may elect on registration or no later than the end of the first 30% of the term, whether the basis of evaluation is to be "credit/no-credit" or a letter grade. These courses will be noted in the College Catalog as being eligible for the *Credit/No-Credit Option*.

### 1. USAGE FOR SINGLE PERFORMANCE STANDARD.

The credit/no-credit grading system shall be used in any course in which there is a single satisfactory standard of performance for which unit credit is assigned.

A grade of Credit (CR) shall be assigned for meeting that standard, and a grade of No-Credit (NC) shall be assigned for failure to do so.

### 2. ACCEPTANCE OF CREDITS. All units earned on a "credit/no-credit" basis in accredited California institutions of higher education or equivalent out-of-state institutions shall be counted in satisfaction of community college curriculum requirements.

### 3. RECORDING OF GRADE. A student who is approved to be evaluated on the "credit/no-credit" basis shall receive both course credit and unit credit upon satisfactory completion of the course. Satisfactory completion for credit is equivalent to the grade of "C" or better. A student who does not perform satisfactorily will be assigned a "No-Credit" (NC) grade.

### 4. GRADE POINT CALCULATION. Units earned on a "credit/no-credit" basis shall not be used to calculate grade-point-averages. However, units attempted for which "No-Credit" (NC) is recorded shall be considered in probationary and dismissal procedures.

### 5. STANDARDS OF EVALUATION. The student who is enrolled in a course on a "credit/no-credit" basis will be held responsible for all assignments and examinations required in the course and must meet the standards of evaluation which are identical for all students.

### 6. CONVERSION TO LETTER GRADE. A student who has received credit for a course taken on a "credit/no-credit" basis may not convert this credit to a letter grade.

### 7. COURSE REPETITION. A student who has received a grade of "No-Credit" (NC) may repeat the course by meeting the requirements set forth by the District *Course Repetition to Improve Substandard Grades Policy*.



**Campus Procedure**

**REGULATIONS FOR CREDIT/NO CREDIT (PASS/FAIL):**  
Not all courses will be offered on a credit/no credit basis. Determination of courses will be made by the appropriate divisions.

A maximum of 15 units of credit/no credit work may be used towards the A.A. degree. A maximum of one course per semester may be taken for credit/no credit. However, this restriction does not apply to students who already possess a bachelor's or higher degree.

Credit/no credit may not be used for courses required toward a certificate, AA major or transfer preparation for a major and/or certification, or as a prerequisite for another course.

- \* English 101 may not be taken for credit/no credit.
- \* Courses for CSU General Education required areas may not be taken for credit/no credit.
- \* CSU will allow no more than 30 units total "credit" graded courses toward the bachelor's degree.
- \* UC will allow only 14 units of credit/no credit toward transfer.

Students must notify the Admissions Office by the end of the sixth week of the course if they wish to take a course credit/no credit; otherwise all courses are for a letter grade. This decision will be irrevocable.

Credit/No Credit is similar to Pass/Fail. A credit grade is granted for performance which is equivalent to the letter grade of "C" or better. Students electing credit/no credit grading should be aware that although such grades are not calculated into the grade point average at West Los Angeles College, four-year colleges, in considering applications for admissions, may consider the credit grade as the equivalent of "C". Consultation with a counselor is advisable before making such elections.

The following courses will be accepted for Credit/No Credit.

**BEHAVIORAL SCIENCES**

All anthropology courses

All personal development courses (Credit/No Credit only)

Psychology 52

**BUSINESS DIVISION**

All Accounting, business, business data processing, computer science, law, management, marketing, and real estate courses.

**EARTH, HEALTH, AND LIFE SCIENCES DIVISION**

Biology 4

Environmental Science 2

Oceanography 1, 12

**HUMANITIES AND FINE ARTS DIVISION**

Art 101, 102, 103, 111, 113, 201, 202, 203, 204, 205, 206, 208, 209, 300, 301, 302, 303, 304, 305, 501, 502, 503, 706, 708, 709, 710, 711, and 712

French 1, 2, 3, 4, 5, 6, 8, 21, 22, 61, 185, 285 and 385

Humanities 5, 30 and 31

Music 101, 111, 112, 141, 201, 211, 321, 501, 561, and 775

Philosophy 1, 2, 3, 4, 6, 8, 9, 20, 22, 23, and 24

Spanish 1, 2, 3, 4, 5, 6, 8, 14, 21, 22, 24 and 61

**LANGUAGE ARTS DIVISION**

English 31, 61, 62, 127, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 218, 219, 240, English 67 is Credit/No Credit only.

Theater Arts 505, 507, and 509

**MATH-SCIENCE DIVISION**

Mathematics 100 (Credit/No Credit only)

**Course Repetition to Improve Substandard Grades**

Students may petition for approval to repeat up to a total of 15 units in which substandard grades (less than "C," 2.0) were awarded.

Students may repeat the same course only once for this purpose.

Upon completion of a course repetition, the most recent grade earned will be computed in the cumulative grade-point-average and the student's academic record so annotated.

No specific course or categories of courses shall be exempt from course repetition.

This policy is adopted for use in the Los Angeles Community College District only. Other institutions may differ and students planning to transfer to another college should contact that institution regarding its policy.

**ACADEMIC STANDARDS****Academic Renewal**

Students may submit a petition to the Office of Admissions and Records to have their academic record reviewed for academic renewal action of substandard academic performance under the following conditions:

1. Students must have achieved a grade-point-average of 2.5 in their last 15 semester units, or 2.0 in their last 30 semester units completed at any accredited college or university, and
2. At least two calendar years must have elapsed from the time the course work to be removed was completed.

If the above conditions are met, academic renewal shall be granted, consisting of:

1. Eliminating from consideration in the cumulative grade-point-average up to 18 semester units of course work, and
2. Annotating the student academic record indicating where courses have been removed by academic renewal action.

*Academic renewal actions are irreversible.*

Graduation honors and awards are to be based on the student's cumulative grade-point-average for all college work attempted.

This policy is adopted for use in the Los Angeles Community College District only. Other institutions may differ and students planning to transfer to another college should contact that institution regarding its policy.

**Academic Standards for Probation**

The following standards for academic and progress probation shall be applied as required by regulations adopted by the Board of Governors of the California Community Colleges. Probation shall be determined based on student course work dating from Fall, 1981; course work completed prior to Fall of 1981 is excluded from probation calculations.

**Probation**

A student shall be placed on probation if any one of the following conditions prevail:

- a. **ACADEMIC PROBATION.** The student has attempted a minimum of 12 semester units of work and has a grade-point-average less than a "C" (2.0).

- b. **PROGRESS PROBATION.** The student has enrolled in a total of at least 12 semester units and the percentage of all units in which a student has enrolled and for which entries of "W" (Withdrawal), "I" (Incomplete), and "NC" (No Credit) are recorded reaches or exceeds fifty percent.
- c. **TRANSFER STUDENT.** The student has met the conditions of a or b at another college within the Los Angeles Community College District.

#### Units Attempted

"Units Attempted," for purposes of determining probation status only, means all units of credit in the current community college of attendance for which the student is enrolled.

### Removal from Probation

A student shall be removed from probation upon meeting the criteria specified in this section.

#### Academic Probation

A student on academic probation for a grade point deficiency shall be removed from probation when the student's cumulative grade-point-average is 2.0 or higher.

#### Progress Probation

A student on progress probation because of an excess of units for which entries of No-Credit (NC), Incomplete (I), and/or Withdrawal (W) are recorded shall be removed from probation when the percentage of units in this category drops below fifty percent (50%).

### Academic Standards for Dismissal

A student shall be subject to dismissal and subsequently be dismissed under the conditions set forth within this section. Dismissal shall be determined based on student course work dating from Fall, 1981; course work completed prior to Fall of 1981 is excluded from dismissal calculations.

#### Academic Probation

A student who is on academic probation shall be subject to dismissal if the student has earned a cumulative grade-point-average of less than 2.0 in all units attempted in each of 3 consecutive semesters.

A student who is on academic probation and earns a semester grade-point-average of 2.0 or better shall not be dismissed as long as this minimum semester grade-point-average is maintained.

#### Progress Probation

A student who is on progress probation shall be subject to dismissal if the cumulative percentage of units in which the student has been enrolled for which entries of No-Credit (NC), Incomplete (I), and/or Withdrawal (W) are recorded in at least 3 consecutive semesters reaches or exceeds fifty percent (50%).

*A student who is on progress probation shall not be dismissed after a semester in which the percentage of units in which the student has been enrolled for which entries of "W," "I," and "NC" are recorded is less than fifty percent (50%).*

#### Appeal of Dismissal

A student who is subject to dismissal may appeal to the appropriate College Dean. Dismissal may be postponed and the student continued on probation if the student shows signifi-

cant improvement in academic achievement but has not been able to achieve to a level that would meet the requirements for removal from probation.

#### Dismissal

A student who is subject to dismissal, and who has not been continued on probation throughout the appeal process, shall be notified by the College President, or designee, of dismissal which will become effective the semester following notification.

Dismissal from any one college in the District shall disqualify a student from admission to any other college in the District.

#### Readmission After Dismissal

A student who has been dismissed may request reinstatement after 2 semesters have elapsed. The student shall submit a written petition requesting readmission to College in compliance with College procedures. Readmission may be granted, denied, or postponed subject to fulfillment of conditions prescribed by the College.

### Awards

#### Chancellor's Distinguished Honor Award

The Chancellor's Distinguished Honor Award is one of the most significant and praiseworthy honors available to students in the Los Angeles Community College District. This certificate is awarded at the College Commencement exercises. In order to be considered for the award, a candidate must:

1. Petition for the Associate Degree
2. Achieve a grade-point-average of 3.70 or better in all college work attempted at the time of petition, and be in good standing.
3. Complete at least 50% of all units utilized for the award within the Los Angeles Community College District.
4. Achieve a grade-point-average of 3.70 and be in good standing in all college work attempted at the end of the Fall semester if graduation requirements will not be completed until the end of the Spring semester.

Please note: Spring candidates for this award will be listed as *Candidates* in the graduation program. After the final grade point evaluation, if the student achieved a 3.70 GPA, he or she will be awarded the Chancellor's Distinguished Honor Award. *Students who possess Associate, equivalent or advanced degrees are not eligible for this award.*

#### Chancellor's Award for Outstanding Student Leader

This award will be presented annually to a student at one of the nine Los Angeles Community Colleges who has performed outstanding leadership and service to his or her college.

##### A. Qualifications for Nomination

- (1) Nominees must be registered students at a District College carrying a minimum of 9 units for day students or 6 units for evening students.
- (2) Nominees must have a minimum G.P.A. of 2.5 for all course work at a District College.
- (3) Nominees must have performed outstanding leadership and service to the college. (This award is not limited to those serving in student government.)

For more information contact the President's Office.

**Honors Cords**

Braided gold honor cords are awarded to those who are graduated "With Great Distinction". This indicates an "A" grade point average of 3.50 or better. Honor cords in the college colors (blue and gold) are awarded to students who are graduated "With Distinction". This requires a "B+" average of 3.00 to 3.49. Honor cords are presented only to students who qualify and participate in the June Commencement exercises. Students who possess an Associate, equivalent or advanced degree are not eligible for these awards.

**Deans List Requirements**

West Los Angeles College encourages academic excellence. Students who have completed at least 12 units in one semester with a grade point average of 3.5 or better are placed on the Deans List and remain there from semester to semester by maintaining a 3.5 grade point average. Part-time students are placed on the Deans List after they have accumulated 20 units of work with a grade point average of 3.5 or better and additionally for the next three increments of 15 units for which

a grade point average of 3.5 is maintained. Part-time students must apply for the Deans List. Students who have completed 70 or more units or who have an A.A. or higher degree are not eligible for the Deans List.

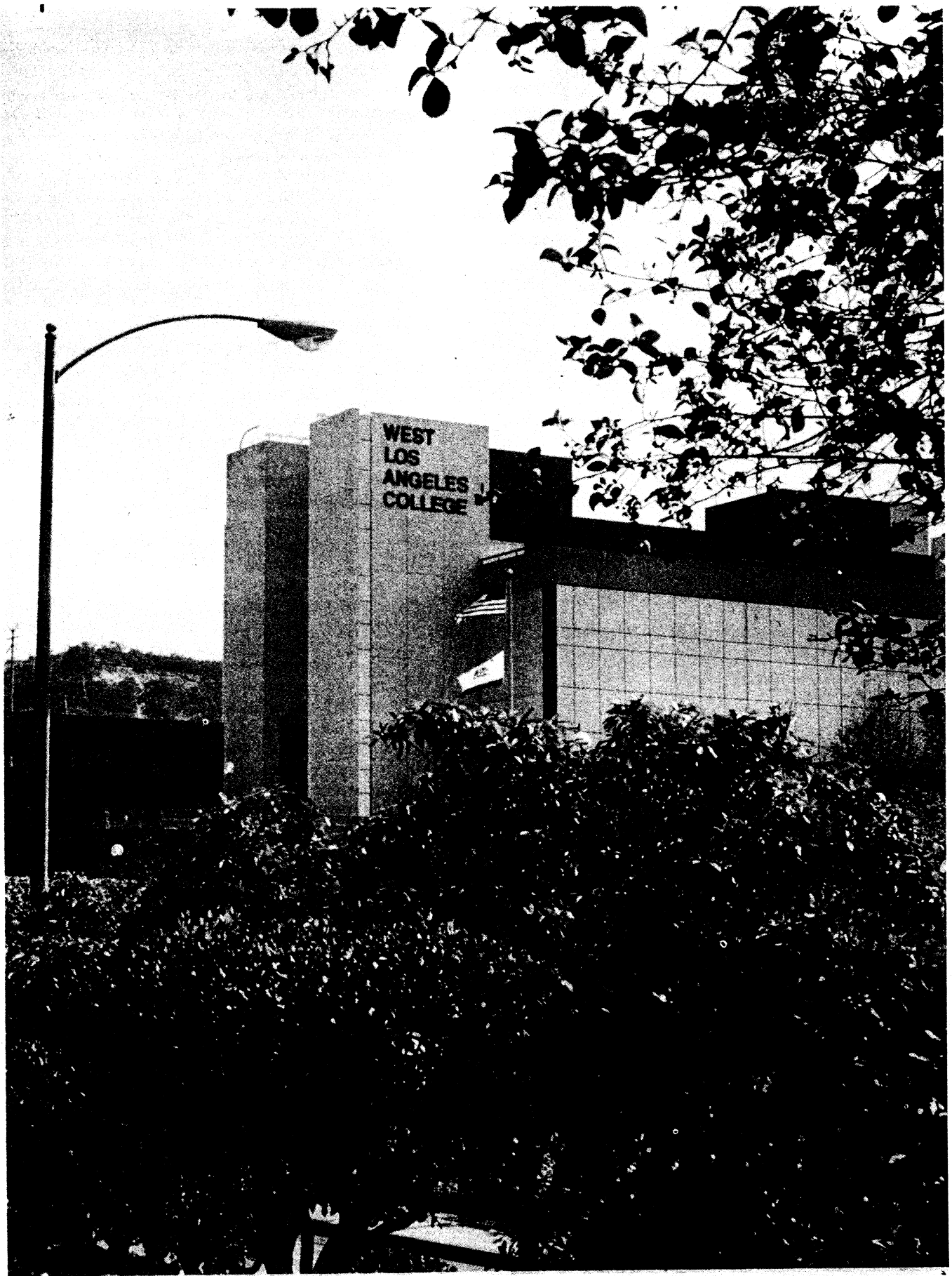
Notation of Deans List achievement is made on the student's permanent records. Further recognition is given these students at a reception in their honor and by means of a personal letter from the Deans.

Students of outstanding personality, scholarship and leadership are recognized through the yearly presentation of awards within the various college divisions. Award recipients are determined through divisional procedures.

**Alpha Gamma Sigma**

A chapter of the Alpha Gamma Sigma honor society exists on the West Los Angeles College campus. The purpose of the organization is to promote and to recognize scholastic achievement, cultural activities and leadership. For specific membership requirements, contact the faculty advisor or Student Activities Center.





# EDUCATIONAL PROGRAMS

West Los Angeles College provides educational programs that lead to transfer to four-year colleges and universities as well as career programs that lead to an Associate Degree or Certificate.

## Career Certificates and Associate Degrees

The following 18 Associate Degree or Certificate programs are offered for students seeking immediate employment in a new position or upgrading in their current job.

- Accounting
- Administration of Justice\*
- Aircraft Electronics Technology
- Aviation Maintenance Technician
- Business
- Business Data Processing
- Business Management
- Business Management (Small Business)
- Business Marketing
- Child Development
- Computer Science — Information Technology
- Dental Hygiene
- Drafting Technology (formerly Engineering Drafting)
- Electronics
- Office Administration (General)
- Office Administration (Word Processing Option)
- Real Estate
- Travel

\*Associate Degree program only

Students wishing an Associate Degree may obtain two years of career training along with selected General Education courses in a chosen field. Students desiring only career-oriented courses may choose a Certificate Program as their objective.

Certificate programs are usually one-year educational programs which offer necessary courses needed to prepare students for immediate employment. The Certificate Program is specific, and no course substitution will be permitted unless approved by the department. A "C" (2.0) grade point average or better is required in all work attempted toward the Certificate curriculum. Completion of at least 12 units of work in residence and attendance at West Los Angeles College during the semester in which the requirements are completed is also necessary. During the final semester in which completion of requirements takes place, students should petition for a Certificate from the Admissions Office.

Units earned toward a Certificate may be applied toward the Associate Degree of the same major.

For both the Degree and Certificate program, transcripts from all other colleges attended must be on file in the Admissions Office. A 2.0 GPA is required for all certificates as well as graduation.

## Transfer Associate Degrees

The following 25 Associate Degree transfer programs are offered by the College:

- Anthropology
- Art
- Biology
- Biology (Health Science Option)
- Business Administration
- Chemistry
- Child Development
- Economics
- Engineering
- English
- French
- Geography
- Geology
- History
- Journalism
- Mathematics
- Music
- Philosophy
- Physical Education
- Physics
- Political Science
- Psychology
- Sociology
- Spanish
- Speech

For complete information on transfer Associate Degree requirements, the student should refer to "Graduation Requirements" and to "Transfer Programs" in this section. Lower-division requirements of four-year colleges and universities are found under "Transfer Requirements." Because baccalaureate institutions differ in their majors requirements, it is vitally important for transfer students to consult the Counseling Department before registration to get the best available information about courses they need to take.

## Graduation Requirements

The Board of Governors of the California Community Colleges has authorized the Los Angeles Community College District Board of Trustees to confer the degrees of Associate in Arts and Associate in Science.

The awarding of an Associate Degree symbolizes a successful attempt on the part of the College to lead students through patterns of learning experiences designed to develop certain capabilities and insights. Among these are the ability to think and to communicate clearly and effectively both orally and in writing; to use mathematics; to understand the modes of inquiry of the major disciplines; to be aware of other cultures and times; to achieve insights gained through experience in thinking about ethical problems; and to develop the capacity for self-understanding. In addition to these accomplishments, the student should possess sufficient depth in some field of knowledge to contribute to lifetime interest.

The following requirements apply to students entering for the first time after July 1, 1983. Continuing students with uninterrupted attendance and demonstrating satisfactory

progress, exclusive of summer session, should refer to the graduation requirements listed in the catalog in effect at the time of their initial enrollment. A continuing student is one who has completed a minimum of one course per semester, except that completion with a "W" will be accepted for one semester only.

Students who interrupt their attendance become subject to any new requirements which are in effect at the time they re-enroll.

- I. **Unit Requirement.** 60 to 64 units of course credit in a selected curriculum. One credit hour of community college work is approximately three hours of recitation, study, or laboratory work per week throughout a term of 16 weeks.
- II. **Scholarship Requirement.** A "C" (2.0) grade average or better in all work attempted.
- III. **Competency Requirement.** Students must demonstrate competence in reading, in written expression, and in mathematics. The following courses and examinations are approved to meet the competency requirement for the associate degree as defined in Board Rule 6201.12:
  - A. The competency requirement in reading and written expression may be met by:
    1. Completion of a course in College Reading and Composition with a grade of "C" or better.  
Or
    2. Completion of any one of the following courses with a grade of "C" or better:  
*Intermediate Reading and Composition*  
*Composition and Critical Writing*  
*Reading and Writing: Personal Experience*  
*Reading and Writing: Contemporary Issues*  
*Reading and Writing: The Arts*  
*Reading and Writing: Fiction*

And

Satisfactory performance on a reading and writing competency test, recommended by the College English faculty and approved by the College President.
  - B. The competency requirement in Mathematics may be met by:
    1. Completion of a college course in Elementary Algebra or higher level mathematics with a grade of "C" or better.  
or
    2. Achieving a minimum score of 12 on the Elementary Algebra ACCESS test.
- IV. **Residence Requirement.** Completion of at least 12 units of work in residence and attendance at the college during the semester in which the graduation requirements are completed. Exceptions may be made under special circumstances.
- V. **Course Requirements.** Students who are majoring in programs of study for which 18-35 units are required in the major shall complete Graduation Plan A. Students who are majoring in programs of study for

which 36 or more units are required in the major shall complete Graduation Plan B.

#### **Graduation Plan A**

**Major Requirements:** At least 18 semester units of study taken in a single discipline or related disciplines.

**General Education Requirements:** Successful completion of at least 30 semester units of general education which shall include not less than the minimum number of units indicated in each of the following areas:

- A. **Natural Sciences** — Minimum 3 semester units.  
Anthropology 101; Astronomy 1; Biology 3, 4, 5, 10; Botany 5; Chemistry 1, 3, 10; Environmental Science 1, 2; Geography 1, 3; Geology 1; Meteorology 3 (same as Geography 3); Oceanography 1, 2, 12; Physics 12; Psychology 2
- B. **Social and Behavioral Sciences** — Minimum of 9 semester units in the following pattern:
  1. At least 3 units in American Institutions to be met in U.S. History, or Political Science, or U.S. Ethnic History or Political Science.  
History 11, 12, 13, 14, 16, 41, 42; Political Science 1, 30
  2. At least 3 units in other Social Sciences to be met in Anthropology, Economics, Ethnic Studies, Geography, History, Political Science, Psychology, Sociology, or other Social Science courses.  
Anthropology 102, 121, 124; Child Development 1; Psychology 1, 8
  3. At least 3 additional units from 1 or 2 above.  
Administration of Justice 4; Anthropology 103, 132, 133; Business 1; Economics 1, 2, 10; Geography 2, 7; History 1, 2, 3, 4; Political Science 2, 4, 7, 8, 14; Sociology 1, 2, 5, 6, 11, 22
- C. **Humanities** — Minimum 3 semester units.  
Art 101, 102, 103, 111; English 203, 204, 205, 206, 211, 212, 213, 215; Foreign Language — any 5 unit class; Humanities 30, 31; Music 111, 112, 121, 122, 141; Philosophy 1, 2, 3, 4, 20, 23, 24; Theater Arts 100, 110, 505
- D. **Language and Rationality** — Minimum 12 semester units in the following pattern:
  1. English Composition — at least 3 semester units.  
English 101 or 28
  2. Communication and Analytical Thinking — at least 6 semester units in Math, Logic and Critical Thinking, Speech, Computer Literacy and/ or Computer Languages.
  3. At least 3 additional units from 1 or 2 above.  
Co Sci 1, 3, 7, 8, 11, 17, 19, 27, 37, 39; Linguistics 1; Math 215, 220, 225, 235, 236, 240, 260, 261, 262, 263, 270, 275; Philosophy 6, 7, 8, 9; Speech 11
- E. **Health and Physical Education** — Minimum 3 semester units in the following pattern:
  1. Health Education — 2 units
  2. Physical Education Activity — 1 unit  
or  
One combined class — 3 units

Authorized Physical Education activity exemptions include:

- a. Medical exemption
- b. Extenuating circumstances

Ethnic Studies courses will be offered in at least one of the required areas.

Plan A should be followed by students in these programs:

**Career:** Accounting, Administration of Justice, Business Data Processing, Computer Science, Business Management, Drafting Technology

**Transfer:** Anthropology, Art, Biology (Health Sciences), Economics, English, French, Geography, History, Journalism, Music, Philosophy, Physical Education, Political Science, Psychology, Sociology, Spanish, Speech

**Graduation Plan B**

**Major Requirements:** At least 36 semester units of study taken in a single discipline or related disciplines.

**General Education Requirements:** Successful completion of at least 18 semester units in general education which shall include not less than the minimum number of units indicated in each of the following areas:

- A. **Natural Sciences** — Minimum 3 semester units.  
 Anthropology 101; Astronomy 1; Biology 3, 4, 5, 10; Botany 5, Chemistry 1, 3, 10; Environmental Science 1, 2; Geography 1, 3; Geology 1; Oceanography 1, 2, 12; Physics 12; Psychology 2
- B. **Social and Behavioral Sciences** — Minimum 3 semester units.  
 Students must demonstrate a competency in their understanding of American Institutions and U.S. History. Students who do not achieve a passing level on a competency examination must successfully complete an appropriate course or courses in American Institutions and U.S. History.  
 History 11, 12, 13, 14, 16, 41, 42; Political Science 1, 30 or pass American Institutions Competency Examination. If examination is passed choose one course from Anthropology 102, 103, 121, 124, 132, 133; Business 1; Child Development 1, Economics 1, 2, 10; Geography 2, 7; History 1, 2, 3, 4; Political Science 2, 4, 7, 8, 14; Psychology 1, 8; Sociology 1, 2, 5, 6, 9, 11 22.
- C. **Humanities** — Minimum 3 semester units.  
 Art 101, 102, 103; English 203, 204, 205, 206, 211, 212, 213, 215; Foreign Language (any 5 unit class); Humanities 30, 31; Music 111, 112, 121, 122, 141; Philosophy 1, 2, 3, 4, 20, 23, 24; Theater Arts 100, 110, 505
- D. **Language and Rationality** — Minimum 6 semester units in the following pattern.
  - 1. Three semester units in English Composition
  - 2. Three semester units in Communication and Analytical Thinking.  
 Speech 1, 11, 32; English 101; Co Sci 1, 3, 7, 8, 11, 17, 19, 27, 37, 39; Math 240, 270, 225, 275, 220, 235, 236, 215, 260, 261, 262, 263

E. **Health and Physical Education** — Minimum 3 semester units in the following pattern:

- 1. Health Education — 2 units
- 2. Physical Education Activity — 1 unit

or

One combined class — 3 units

Authorized Physical Education activity exemptions include:

- a. Medical exemption
- b. Extenuating circumstances

Ethnic Studies courses will be offered in at least one of the required areas.

Plan B should be followed by students in these programs:

**Career:** Aircraft Electronics Technology, Aviation Maintenance Technician, Business, Business Management (Small Business), Business Marketing, Child Development, Dental Hygiene, Electronics, Office Administration (General Office), Office Admin. (General Secretarial), Office Admin. (Medical Office), Office Admin. (Word Processing), and Travel

**Transfer:** Chemistry, Engineering, Geology, Mathematics

**NOTE:** While a course might satisfy more than one general education requirement, it may not be counted more than once for these purposes. It may be counted again for a different degree requirement as determined by each college.

A course may meet a general education requirement for the Associate Degree and also partially satisfy a general education requirement at the California State University.

## Career Programs

Students should refer to the "Graduation Requirements" section for additional information. Check prerequisites before scheduling in courses. Students are encouraged to seek assistance from counselors and faculty. Curricula listed under "Career Programs" are *not* for transfer students.

### ACCOUNTING — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM

This program is designed to prepare the student for entry into the business community in such entry-level positions as bookkeeper, accounting clerk and assistant auditor. Skills required for maintaining records, controlling finances, and preparing financial reports are presented. Those intending to earn a B.A. in Accounting at a transfer institution should follow the transfer program in Business Administration.

### Associate Degree

| REQUIRED COURSES | UNITS                             |   |
|------------------|-----------------------------------|---|
| ACCT 1*          | Introductory Accounting I         | 5 |
| ACCT 2           | Introductory Accounting II        | 5 |
| CO SCI 1         | Principles of Computer Science I  | 3 |
| ECON 1           | Principles of Economics I         | 3 |
| ECON 2           | Principles of Economics II        | 3 |
| LAW 1            | Business Law I                    | 3 |
| MKT 1            | Principles of Selling             | 3 |
| BUS/OA 32        | Business Communications           | 3 |
|                  | Electives (see "Electives" below) | 9 |

### Certificate

**REQUIRED COURSES**

(All courses must be completed with a grade of C or better to count towards the accounting certificate.)

|         |                                   |    |
|---------|-----------------------------------|----|
| ACCT 1* | Introductory Accounting I         | 5  |
| ACCT 2  | Introductory Accounting II        | 5  |
| ACCT 15 | Tax Accounting I                  | 3  |
| ACCT 37 | Accounting Machine Practice       | 1  |
| BUS 1   | Introduction to Business          | 3  |
| LAW 1   | Business Law I                    | 3  |
|         | Electives (see "Electives" below) | 9  |
|         |                                   | 29 |

**ELECTIVES**

(9 units from this list)

|           |                                  |   |
|-----------|----------------------------------|---|
| ACCT 3    | Intermediate Accounting          | 3 |
| ACCT 20   | Managerial Accounting            | 3 |
| CO SCI 1  | Principles of Computer Science I | 3 |
| ECON 1    | Principles of Economics          | 3 |
| MAKT 1    | Principles of Selling            | 3 |
| MAKT 21   | Principles of Marketing          | 3 |
| MGMT 1    | Principles of Management         | 3 |
| BUS/OA 32 | Business Communications          | 3 |
| ACCT 25   | Automated Accounting             | 3 |

All courses must be completed with a grade of C or better to count towards the accounting certificate. Upon completion of the requirements, a petition for the accounting certificate needs to be filed in the Office of Admissions and Records.

\*Accounting 21 plus Accounting 22 are the equivalent of Accounting 1.

### ADMINISTRATION OF JUSTICE — ASSOCIATE IN ARTS DEGREE

Administration of criminal justice includes law enforcement, the courts, and the correctional system at the community, county, state and federal levels. There is an ever-increasing demand in these fields for men and women with a college education with a wide variety of career opportunities offered in public and private law enforcement. Included are police and sheriff's departments, state police, highway patrols and various federal and state investigative agencies. Private security opportunities include hospital, retail, airline, merchant, railroad, bank, shopping center, college, university and hospital security.

### Associate Degree

**REQUIRED COURSES**

|       |  |    |
|-------|--|----|
| AJ 1  | Introduction to Administration of Justice    | 3  |
| AJ 2  | Concepts of Criminal Law                     | 3  |
| AJ 3  | Legal Aspects of Evidence                    | 3  |
| AJ 4  | Principles, Procedures of the Justice System | 3  |
| AJ 14 | Report Writing                               | 3  |
| AJ 67 | Community Relations                          | 3  |
| AJ    | Elective                                     | 6  |
| PSY 1 | General Psychology I OR                      | 3  |
| SOC 1 | Introduction to Sociology                    | 3  |
|       |  | 27 |

**RECOMMENDED**

|      |                        |   |
|------|------------------------|---|
| AJ 5 | Criminal Investigation | 3 |
| AJ 6 | Patrol Procedures      | 3 |
| AJ 8 | Juvenile Procedures    | 3 |

### AIRCRAFT ELECTRONICS TECHNOLOGY — ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE PROGRAM

To meet the rapidly growing demand for aircraft electronics technicians, the College offers both an Associate in Science Degree and a Certificate in Aircraft Electronics Technology. To earn the Associate Degree, students complete the 48 units of aircraft electronics technology courses listed below plus 15 units of general education courses. Those working for the certificate take the 48 units of technical courses only. Upon qualifying by examination, students are issued Federal Communications Commission certificates that entitle them to assume the responsibilities of qualified radio and radar technicians.

NOTE: The first and second semester constitute the core curriculum for Aircraft Electronics Technology and/or Electronics. Refer to page 38 for an explanation of Core I and II courses.

### Associate Degree or Certificate

(A suggested sequence would be)

|                       |  |              |
|-----------------------|--|--------------|
| <b>FIRST SEMESTER</b> |  | <b>UNITS</b> |
| *AET 1                | Scientific Calculator Electronics Mathematics      | 4            |
| *AET 2                | Aircraft Direct Current Theory and Laboratory      | 4            |
| *AET 3                | Aircraft Alternating Current Theory and Laboratory | 4            |
|                       |  | 12           |

|                        |  |              |
|------------------------|--|--------------|
| <b>SECOND SEMESTER</b> |  | <b>UNITS</b> |
| **AET 4                | Aircraft Semiconductor and Integrated Circuit Applications | 4            |
| **AET 5                | Aircraft Electronic Circuit Analysis I                     | 4            |
| **AET 6                | Aircraft Electronic Circuit Analysis II                    | 4            |
|                        |  | 12           |

\*Core I courses  
\*\*Core II courses

|                       |   |              |
|-----------------------|---|--------------|
| <b>THIRD SEMESTER</b> |   | <b>UNITS</b> |
| AET 7                 | Aircraft Receiver and Transmitter Principles I  | 4            |
| AET 8                 | Aircraft Receiver and Transmitter Principles II | 4            |
| AET 9                 | Radio Communication                             | 4            |
|                       |   | 12           |

NOTE: Student must have a minimum 2.0 GPA in Aircraft Electronics Technology prior to enrollment in AET 10, 11, 12.

|                        |  |              |
|------------------------|--|--------------|
| <b>FOURTH SEMESTER</b> |  | <b>UNITS</b> |
| AET 10                 | Digital Computer Logic, and Auto Pilot Systems | 4            |
| AET 11                 | Aircraft Multiplex Systems                     | 4            |
| AET 12                 | Aircraft Entertainment and Intercom Systems    | 4            |
|                        |  | 12           |

OR

AET 51  
AET 52  
AET 53

1st, 2nd, 3rd, and 4th Semester

OR

A Combination  
(Note: AET 51, 52 and 53 are offered concurrently.)



## AVIATION MAINTENANCE TECHNICIAN — ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE PROGRAM

To meet the aerospace industry's demand for well-trained, certificated aircraft mechanics, the College offers an Aviation Maintenance Technician Associate Degree, an Airframe Maintenance Technician Certificate, and an Aircraft Powerplant Technician Certificate. Upon qualifying by written, oral, and practical examination, students are issued Federal Aviation Administration licenses.

NOTE: A student may attend classes for the AMT program eight hours per day or 40 hours per week. This accelerated course will allow students to complete the requirements for the A&P license in only three semesters unless a scheduling conflict arises.

### Associate Degree

#### FIRST SEMESTER

|       |  | UNITS |
|-------|--|-------|
| AMT 1 | Maintenance Procedures                   | 3     |
| AMT 2 | Maintenance Procedures Lab               | 2     |
| AMT 3 | Basic Aircraft Science                   | 3     |
| AMT 4 | Basic Aircraft Science Lab               | 2     |
| AMT 5 | Basic Electricity and Auxilliary Systems | 3     |
| AMT 6 | Basic Electricity and Auxilliary Systems | 2     |

#### SECOND SEMESTER

|        |                                       | UNITS |
|--------|---------------------------------------|-------|
| AMT 7  | Electrical and Instrument Systems     | 3     |
| AMT 8  | Electrical and Instrument Systems Lab | 2     |
| AMT 9  | Assembly, Rigging and Inspection      | 3     |
| AMT 10 | Assembly, Rigging and Inspection Lab  | 2     |
| AMT 11 | Aircraft Metal Assembly               | 3     |
| AMT 12 | Aircraft Metal Assembly Lab           | 2     |

#### THIRD SEMESTER

|        |  | UNITS |
|--------|--|-------|
| AMT 13 | Hydraulic, Landing Gear and Fuel Systems     | 3     |
| AMT 14 | Hydraulic, Landing Gear and Fuel Systems Lab | 2     |
| AMT 15 | Propeller and Powerplant Systems             | 3     |
| AMT 16 | Propeller and Powerplant Systems Lab         | 2     |
| AMT 17 | Ignition and Fuel Metering Systems           | 3     |
| AMT 18 | Ignition and Fuel Metering Systems Lab       | 2     |

#### FOURTH SEMESTER

|        |  | UNITS |
|--------|--|-------|
| AMT 19 | Reciprocating Powerplant Overhaul  | 3     |
|        | Prerequisites AMT 15 and AMT 17  |       |
| AMT 20 | Reciprocating Powerplant Overhaul Lab  | 2     |
|        | Prerequisites AMT 16 and AMT 18  |       |
| AMT 21 | Powerplant Trouble Shooting and Testing                                      | 3     |
|        | Prerequisite AMT 19  |       |
| AMT 22 | Powerplant Trouble Shooting and Testing Lab                                  | 2     |
|        | Prerequisite AMT 20  |       |
| AMT 23 | Inspection and Evaluation  | 3     |
|        | Prerequisites AMT 1 through AMT 22 or authorization for Written Examinations |       |
| AMT 24 | Inspection and Evaluation Lab  | 2     |
|        | Prerequisites AMT 1 through AMT 22 or authorization for Written Examination  |       |

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NOTE: Student must have a minimum 2.0 GPA in Aviation Maintenance Technology prior to enrollment in AMT 23, 24.

General Education courses required for graduation should be taken as fits schedule if student wishes to earn Associate Degree.

### Certificate — Airframe

|        |  | UNITS |
|--------|--|-------|
| AMT 1  | Maintenance Procedures   | 3     |
| AMT 2  | Maintenance Procedures Lab   | 2     |
| AMT 3  | Basic Aircraft Science   | 3     |
| AMT 4  | Basic Aircraft Science Lab   | 2     |
| AMT 5  | Basic Electricity and Auxilliary Systems                                     | 3     |
| AMT 6  | Basic Electricity and Auxilliary Systems Lab                                 | 2     |
| AMT 7  | Electrical and Instrument Systems  | 3     |
| AMT 8  | Electrical and Instrument Systems Lab  | 2     |
| AMT 9  | Assembly, Rigging and Inspection   | 3     |
| AMT 10 | Assembly, Rigging and Inspection Lab   | 2     |
| AMT 11 | Aircraft Metal Assembly  | 3     |
| AMT 12 | Aircraft Metal Assembly Lab  | 2     |
| AMT 13 | Hydraulic, Landing Gear, & Fuel Systems                                      | 3     |
| AMT 14 | Hydraulic, Landing Gear, & Fuel Systems Lab                                  | 2     |
| AMT 23 | Inspection and Evaluation  | 3     |
|        | Prerequisites AMT 1 through AMT 14 or authorization for Written Examinations |       |
| AMT 24 | Inspection and Evaluation Lab  | 2     |
|        | Prerequisites AMT 1 through AMT 14 or authorization for Written Examinations |       |

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NOTE: Student must have a minimum 2.0 GPA in Aviation Maintenance Technology prior to enrollment in AMT 23, 24.

### Certificate — Powerplant

|        |  | UNITS |
|--------|--|-------|
| AMT 1  | Maintenance Procedures   | 3     |
| AMT 2  | Maintenance Procedures Lab   | 2     |
| AMT 3  | Basic Aircraft Science   | 3     |
| AMT 4  | Basic Aircraft Science Lab   | 2     |
| AMT 5  | Basic Electricity and Auxilliary Systems   | 3     |
| AMT 6  | Basic Electricity and Auxilliary Systems Lab                                       | 2     |
| AMT 7  | Electrical and Instrument Systems  | 3     |
| AMT 8  | Electrical and Instrument Systems Lab  | 2     |
| AMT 15 | Propeller and Powerplant Systems   | 3     |
| AMT 16 | Propeller and Powerplant Systems Lab   | 2     |
| AMT 17 | Ignition and Fuel Metering Systems   | 3     |
| AMT 18 | Ignition and Fuel Metering Systems Lab   | 2     |
| AMT 19 | Reciprocating Powerplant Overhaul  | 3     |
|        | Prerequisites AMT 15 and AMT 17  |       |
| AMT 20 | Reciprocating Powerplant Overhaul Lab  | 2     |
|        | Prerequisites AMT 16 and AMT 18  |       |
| AMT 21 | Powerplant Trouble Shooting and Testing  | 3     |
|        | Prerequisite AMT 19  |       |
| AMT 22 | Powerplant Trouble Shooting and Testing Lab  | 2     |
| AMT 23 | Inspection and Evaluation  | 3     |
|        | Prerequisites AMT 1 through AMT 8, 15-22 or authorization for Written Examinations |       |
| AMT 24 | Inspection and Evaluation Lab  | 2     |
|        | Prerequisites AMT 1 through AMT 8, 15-22 or athorization for Written Examinations  |       |

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\*NOTE: Student must have a minimum 2.0 GPA in Aviation Maintenance Technology prior to enrollment in AMT 23, 24.

## BUSINESS — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM

The two-year general business curriculum and the Certificate Program are intended for students who have not decided which field of business they would like to enter. A broad background of business knowledge which can be applied in most businesses is provided.

## Associate Degree

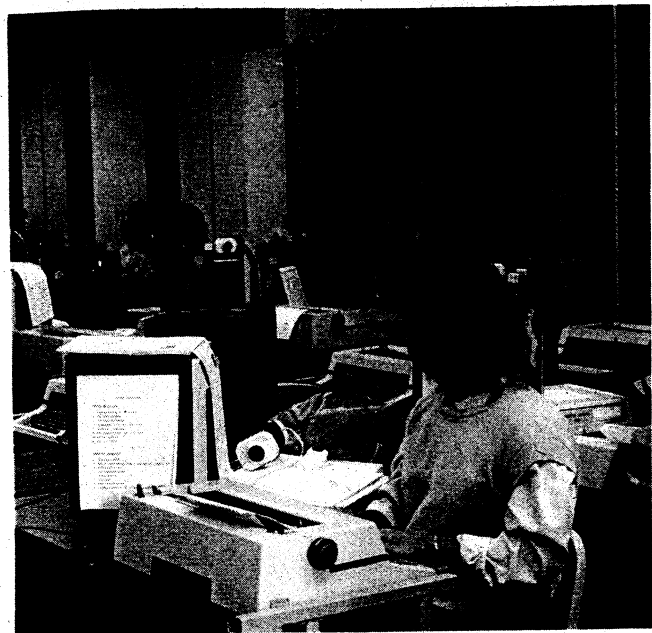
| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| ACCT 1           | Introductory Accounting I OR             | 5     |
| ACCT 21          | Bookkeeping & Accounting I AND           | 3     |
| ACCT 22          | Bookkeeping & Accounting II              | 3     |
| ACCT 37          | Accounting Machine Practice              | 1     |
| CO SCI 1         | Principles of Business Data Processing I | 3     |
| BUS 1            | Introduction to Business                 | 3     |
| BUS 31           | Business English                         | 3     |
| BUS 32           | Business Communications                  | 3     |
| BUS 38           | Business Computations                    | 3     |
| LAW 1            | Business Law I                           | 3     |
| MGMT 1           | Principles of Management                 | 3     |
| MGMT 13          | Small Business Management I              | 3     |
| MKTG 1           | Principles of Selling                    | 3     |
| MKTG 21          | Principles of Marketing                  | 3     |
| RE 1             | Principles of Real Estate                | 3     |

| RECOMMENDED |                                    | 39-40<br>UNITS |
|-------------|------------------------------------|----------------|
| MGMT 2      | Organization and Management Theory | 3              |
| RE 18       | Real Estate Investments            | 3              |

## Certificate

|          |  | UNITS |
|----------|--|-------|
| ACCT 1   | Introductory Accounting OR               | 5     |
| ACCT 21  | Bookkeeping & Accounting I AND           | 3     |
| ACCT 22  | Bookkeeping & Accounting II              | 3     |
| CO SCI 1 | Principles of Business Data Processing I | 3     |
| BUS 1    | Introduction to Business                 | 3     |
| BUS 38   | Business Computations                    | 3     |
| LAW 1    | Business Law I                           | 3     |
| MGMT 1   | Principles of Management                 | 3     |
| MGMT 2   | Organization and Management Theory OR    | 3     |
| BUS 32   | Business Communications                  | 3     |
| MKTG 1   | Principles of Selling                    | 3     |
| MKTG 1   | Principles of Marketing                  | 3     |
| RE 1     | Principles of Real Estate                | 3     |

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## Certificate

|           |  | UNITS |
|-----------|--|-------|
| CO SCI 1  | Principles of Business Data Processing | 3     |
| CO SCI 3  | Business Computer Programming I        | 3     |
| CO SCI 8  | Business Data Processing Systems       | 3     |
| CO SCI 11 | COBOL Programming I                    | 3     |
| CO SCI 12 | COBOL Programming                      | 3     |
| ACCT 1    | Introductory Accounting 1              | 5     |
| BUS 1     | Introduction to Business               | 3     |
| MKT 21    | Principles of Marketing                | 3     |
| MGNT 1    | Principles of Management               | 3     |
| CO SCI 38 | Computer Operations                    | 3     |

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## BUSINESS DATA PROCESSING — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM

The curriculum prepares students to enter the field of business data processing by providing background in data processing technology, accounting, marketing, and management.

### Associate Degree

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| ACCT 1           | Introductory Accounting                | 5     |
| CO SCI 1         | Principles of Business Data Processing | 3     |
| CO SCI 3         | Business Computer Programming I        | 3     |
| CO SCI 8         | Business Data Processing Systems 3     | 3     |
| CO SCI 11        | COBOL Programming 1                    | 3     |
| CO SCI 12        | COBOL Programming 12                   | 3     |
| BUS 1            | Introduction to Business               | 3     |
| MKT 21           | Principles of Marketing                | 3     |
| MGMT 1           | Principles of Management               | 3     |
| CO SCI 38        | Computer Operations                    | 3     |
| CO SCI 39        | Advanced Computer Programming          | 3     |
| BDP 65           | Applications Software                  | 4     |

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## BUSINESS MANAGEMENT — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM

The management program is designed to teach businessmen and businesswomen, public servants and professionals in all fields the process of effective decision-making. This is accomplished through understanding human interaction, finances, and other business disciplines. The central concepts of management (planning, organizing, staffing, directing and controlling) are applied. Completion of this program enables a future manager to perform effectively at an entry level in any organization.

### Associate Degree

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| ACCT 1           | Introductory Accounting I                                  | 5     |
| BUS 1            | Introduction to Business                                   | 3     |
| BUS 38           | Business Computations                                      | 3     |
| ECON 1           | Principles of Economics I                                  | 3     |
| BUS 32           | Business Communications OR                                 | 3     |
| ENG 22           | Technical English* OR                                      | 3     |
| ENG 1            | College Reading and Composition I                          | 3     |
| LAW 1            | Business Law I   | 3     |
| MGMT 1           | Principles of Management                                   | 3     |
| MGMT 2           | Organization & Management Theory                           | 3     |
| MGMT 11          | Management Practice  | 3     |
|                  | Any other management/supervision course<br>or BDP/CO SCI 1 | 3     |

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### Certificate

|         |   | UNITS |
|---------|---|-------|
| ACCT 1  | Introductory Accounting I                               | 5     |
| BUS 1   | Introduction to Business                                | 3     |
| ECON 1  | Principles of Economics I                               | 3     |
| ENG 22  | Technical English*                                      | 3     |
| LAW 1   | Business Law I  | 3     |
| MGMT 1  | Principles of Management                                | 3     |
| MGMT 2  | Organization & Management Theory                        | 3     |
| MGMT 11 | Management Practice                                     | 3     |
|         | Any other management/supervision course or BDP/CO SCI I | 3     |
|         |   | 29    |

\*Please consult English Department for substitutions.

### BUSINESS MANAGEMENT (SMALL BUSINESS) — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM

The small business management curriculum is for those men and women who someday may go into business for themselves and for those who are already in business for themselves but wish to strengthen their entrepreneurial and managerial skills. Course work is designed so that students understand the financial, managerial, marketing, accounting, legal and practical day-to-day decision-making concerns of those in small business.

### Associate Degree

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| ACCT 1           | Introductory Accounting I                | 5     |
| BUS 1            | Introduction to Business                 | 3     |
| CO SCI 1         | Principles of Business Data Processing I | 3     |
| BUS 38           | Business Computations                    | 3     |
| LAW 1            | Business Law I                           | 3     |
| MGMT 1           | Principles of Management                 | 3     |
| MGMT 2           | Organization and Management Theory       | 3     |
| MGMT 11          | Management Practice                      | 3     |
| MGMT 13          | Small Business Management I              | 3     |
| MKTG 1           | Principles of selling                    | 3     |
| MKTG 21          | Principles of Marketing marketing course | 3     |
|                  |  | 38    |

| RECOMMENDED |                                  | UNITS |
|-------------|----------------------------------|-------|
| CO SCI 8    | Business Data Processing Systems | 3     |
| BUS 32      | Business Communications          | 3     |

### Certificate

|         |                                  | UNITS |
|---------|----------------------------------|-------|
| ACCT 1  | Introductory Accounting I        | 5     |
| BUS 1   | Introduction to Business         | 3     |
| BUS 38  | Business Computations            | 3     |
| LAW 1   | Business Law I                   | 3     |
| MGMT 1  | Principles of Management         | 3     |
| MGMT 2  | Organization & Management Theory | 3     |
| MGMT 13 | Small Business Management I      | 3     |
| MKTG 1  | Principles of Selling            | 3     |
| MKTG 21 | Principles of Marketing          | 3     |
| MKTG 31 | Retail Merchandising             | 3     |
|         |                                  | 32    |

### BUSINESS MARKETING — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM

The marketing program prepares individuals for such marketing positions as store manager, division manager, department manager, buyer, credit manager, and retail or industrial sales personnel.

### Associate Degree

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| ACCT 1           | Introductory Accounting I                | 5     |
| BUS 1            | Introduction to Business                 | 3     |
| BUS 31           | Business English                         | 3     |
| BUS 32           | Business Communications                  | 3     |
| BUS 38           | Business Computations                    | 3     |
| CO SCI 1         | Principles of Business Data Processing I | 3     |
| LAW 1            | Business Law I                           | 3     |
| MGMT 1           | Principles of Management                 | 3     |
| MGMT 6           | Public Relations                         | 3     |
| MKTG 1           | Principles of Selling                    | 3     |
| MKTG 11          | Fundamentals of Advertising              | 3     |
| MKTG 21          | Principles of Marketing                  | 3     |
| MKTG 31          | Retail Merchandising                     | 3     |
|                  |  | 41    |

| RECOMMENDED |                              | UNITS |
|-------------|------------------------------|-------|
| ACCT 37     | Accounting Machines Practice | 1     |
| WORK EXP    | Cooperative Education        | 1-4   |
| MGMT 13     | Small Business Management    | 1     |
| MGMT 11     | Management Practice          | 3     |
| MKTG 32     | Fashion Merchandising        | 3     |

### Certificate

|         |                             | UNITS |
|---------|-----------------------------|-------|
| BUS 1   | Introduction to Business    | 3     |
| BUS 32  | Business Communications     | 3     |
| BUS 38  | Business Computations       | 3     |
| LAW 1   | Business Law I              | 3     |
| MGMT 1  | Principles of Management    | 3     |
| MGMT 6  | Public Relations            | 3     |
| MGMT 11 | Management Practice         | 3     |
| MKTG 1  | Principles of Selling       | 3     |
| MKTG 11 | Fundamentals of Advertising | 3     |
| MKTG 21 | Principles of Marketing     | 3     |
| MKTG 31 | Retail Merchandising        | 3     |
|         | Work Experience             | 1-4   |
|         |                             | 34-37 |

### Business Certificate Program for Graduates of a Four-year Institution

This program, specifically designed for those men and women with a Baccalaureate degree in a non-business subject, prepares individuals for employment in such areas as financial analysis, market analysis, sales, and general management. The program builds upon the student's previous education.

|          |  | UNITS |
|----------|--|-------|
| ACCT 1   | Introductory Accounting I                | 5     |
| BUS 1    | Introduction to Business                 | 3     |
| BUS 38   | Business Computations                    | 3     |
| CO SCI 1 | Principles of Business Data Processing I | 3     |
| LAW 1    | Business Law I                           | 3     |
| MGMT 2   | Organization & Management Theory OR      | 3     |
| MGMT 13  | Small Business Management I              | 3     |
| MKTG 1   | Principles of Selling                    | 3     |
| MKTG 21  | Principles of Marketing                  | 3     |
|          | Work Experience                          | 1-4   |
|          |  | 30-33 |

### CHILD DEVELOPMENT — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM

The Child Development program serves those entering and currently employed in the rapidly expanding field of Early Childhood Education. Students are prepared to teach in pre-school programs, including private schools, children's cen-

ters, Head Start, parent-cooperatives, and parochial schools, as well as to serve as educational aides in elementary schools.

The program also benefits anyone interested in understanding children, their development, and their behavior.

### Associate Degree

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| CD 1             | Child Growth & Development                       | 3     |
| CD 2             | The Child and the School                         | 3     |
| CD 3             | Creative Experiences for Children I              | 3     |
| CD 10            | Child Health                                     | 3     |
| CD 11            | Home, School and Community Relations             | 3     |
| CD 12            | Parent Involvement in Early Childhood            | 3     |
| CD 21            | Child Development Practice                       | 3     |
| CD 22            | Laboratory in Child Development                  | 4     |
| CD 41            | Organization & Administration of Nursery Schools | 3     |
| FCS 21           | Nutrition  | 3     |
|                  |  | <hr/> |
|                  |  | 31    |

| RECOMMENDED |   | UNITS |
|-------------|---|-------|
| CD 30       | Infant Studies                              | 3     |
| CD 34       | Observing and Recording Children's Behavior | 3     |
| PSYCH 1     | General Psychology                          | 3     |
| SOC 1       | Introduction to Sociology OR                | 3     |
| PSYCH 16    | Love & Marriage                             | 3     |
| SOC 12      | Marriage & Family Life                      | 3     |

### Certificate

|         |  | UNITS |
|---------|--|-------|
| CD 1    | Child Growth & Development                       | 3     |
| CD 2    | The Child and the School                         | 3     |
| CD 3    | Creative Experiences for Young Children I        | 3     |
| CD 10   | Child Health                                     | 3     |
| CD 11   | Home, School, Community Relations                | 3     |
| CD 12   | Parent Involvement in Early Childhood            | 3     |
| CD 21   | Child Development Practices                      | 3     |
| CD 41   | Organization & Administration of Nursery Schools | 3     |
| FCS 21  | Nutrition  | 3     |
| PSYCH 1 | General Psychology                               | 3     |
|         |  | <hr/> |
|         |  | 30    |

## COMPUTER SCIENCE- INFORMATION TECHNOLOGY — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM

This curriculum offers instruction to students interested in computer science or information technology as a career. Students entering this area should have a comprehensive background in mathematics, natural science or an applied area such as accounting or business.

### Associate Degree

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| CO SCI 1         | Principles of Business Data Processing | 3     |
| CO SCI 3         | Business Computer Programming I        | 3     |
| CO SCI 7         | RPG Programming                        | 3     |
| CO SCI 8         | Business Data Processing Systems       | 3     |
| CO SCI 11        | COBOL Programming                      | 3     |
| CO SCI 19        | Programming in Pascal                  | 3     |
| CO SCI 27        | FORTTRAN Programming                   | 3     |
| CO SCI 17        | Assembly Language Programming          | 3     |
| CO SCI 38        | Computer Operations                    | 3     |
| CO SCI 39        | Advanced Computer Programming          | 3     |
|                  |  | <hr/> |
|                  |  | 30    |

### Certificate

|           |                                  | UNITS |
|-----------|----------------------------------|-------|
| CO SCI 1  | Principles of Data Processing I  | 3     |
| CO SCI 3  | Business Computer Programming    | 3     |
| CO SCI 7  | RPG Programming                  | 3     |
| CO SCI 8  | Business Data Processing Systems | 3     |
| CO SCI 19 | Programming in Pascal            | 3     |
| CO SCI 27 | FORTTRAN Programming             | 3     |
| CO SCI 17 | Assembly Language Programming    | 3     |
| CO SCI 38 | Computer Operations              | 3     |
| CO SCI 39 | Advanced Computer Programming    | 3     |
|           |                                  | <hr/> |
|           |                                  | 27    |

Students who have taken advanced courses in the Department with an average of "B" or better but have not taken Co Sci 1 may request a waiver and may substitute MKTG 21 or MGMT 11. If additional credits are required, approval of faculty for suitable courses must be obtained. Business Data processing 65 may be substituted for any of the above classes, except for Co Sci 1 and 3.

## DENTAL HYGIENE — ASSOCIATE IN SCIENCE DEGREE

(Admission by Special Selection)

The dental hygienist, as a member of a modern dental health team, is qualified by education and licensure to provide primary care to patients for the maintenance of oral health and prevention of oral disease.

Under supervision of the dentist, the hygienist removes deposits and stains from teeth, applies agents to help prevent tooth decay, prepares clinical laboratory tests and provides oral health instruction.

The dental hygiene program is accredited by the American Dental Association, Commission on Dental Accreditation. The California Board of Dental Examiners has certified our College faculty to teach the three legislated functions for dental hygiene: local anesthesia, soft-tissue curettage, and nitrous-oxide and oxygen sedation.

Admission to the dental hygiene program is highly selective and by special examination. The admission requirements are available from the counseling office or the dental hygiene department.

In the curriculum below, courses are planned in sequence. Satisfactory completion of all courses, with a C grade or better in a given semester, is required before the student may continue to the next semester in dental hygiene. It is necessary to obtain at least a C grade in all courses in order to continue in the dental hygiene program.

Candidates for graduation must satisfactorily complete the dental hygiene program, according to the State of California Dental Practice Act guidelines for curriculum. With the approval of the dental hygiene department, a candidate may qualify to take the Dental Hygiene National Board Examination, the State Board Examination, and earn an Associate in Science Degree.

## Associate Degree

|                               |              |
|-------------------------------|--------------|
| <b>Prerequisites:</b>         | <b>UNITS</b> |
| Chemistry 10 or Chemistry 1   | 5            |
| Microbiology 20               | 4            |
| Anatomy 1                     | 4            |
| Physiology 1                  | 4            |
| English 1                     | 3            |
| Psychology 1                  | 3            |
| Sociology 1                   | 3            |
| American History              | 3            |
| Speech 1                      | 3            |
| *Active Red Cross C.P.R. Card |              |

\*This item may be obtained after acceptance into the dental hygiene program and before commencement of the fall semester of the first year.

**NOTE:** Courses open only to students accepted in dental hygiene program.

|  |              |
|--|--------------|
| <b>FIRST SEMESTER — Fall</b>                     | <b>UNITS</b> |
| DH 100 Principles of Clinical Dental Hygiene     | 2            |
| DH 101 Introduction to Clinical Dental Hygiene I | 2            |
| DH 102 Radiology I — Introduction to Radiology   | 1            |
| DH 103 Radiology I — Laboratory                  | 1            |
| DH 105 General Pathology                         | 2            |
| DH 106 General and Dental Anatomy                | 2            |
| DH 156 Head and Neck Histology                   | 2            |
| CHEM 9 Introductory Organic and Biochemistry     | 4            |
|  | <hr/> 17     |

|  |              |
|--|--------------|
| <b>SECOND SEMESTER — Spring</b>          | <b>UNITS</b> |
| DH 104 Tooth Morphology                  | 2            |
| DH 108 Intro to Perio                    | 2            |
| DH 150 Preventive Dentistry              | 1            |
| DH 151 Clinical Dental Hygiene II        | 3            |
| DH 152 Radiology II — Advanced Radiology | 1            |
| DH 153 Radiology II — Laboratory         | 1            |
| DH 154 Oral Pathology                    | 2            |
| DH 155 Dental Materials                  | 2            |
| DH 207 Pain Control                      | 1            |
| FCS 21 Nutrition                         | 3            |
|  | <hr/> 18     |

|  |              |
|--|--------------|
| <b>THIRD SEMESTER — Fall</b>                           | <b>UNITS</b> |
| DH 155 Dental Materials                                | 2            |
| DH 200 Introduction to Dental Pathology                | 1            |
| DH 201 Clinical Dental Hygiene III                     | 4            |
| DH 203 Dental Specialties and Expanded Functions — Lab | 1            |
| DH 204 Dental Health Education                         | 1            |
| DH 205 Dental Health Education — Practicum             | 1            |
| DH 206 Periodontics                                    | 2            |
| DH 208 Pharmacology                                    | 3            |
|  | <hr/> 12     |

|  |              |
|--|--------------|
| <b>FOURTH SEMESTER — Spring</b>                  | <b>UNITS</b> |
| DH 202 Dental Specialties and Expanded Functions | 2            |
| DH 210 Emergencies in Dental Practice            | 1            |
| DH 250 Advanced Periodontal Seminar              | 1            |
| DH 251 Clinical Dental Hygiene IV                | 4            |
| DH 252 Essentials of Dental Hygiene Practice     | 2            |
| DH 253 Community Dental Health                   | 2            |
| DH 254 Community Dental Health — Practicum       | 1            |
|  | <hr/> 15     |

## DRAFTING TECHNOLOGY — ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE PROGRAM

The drafting technology program is designed to prepare students for entry into jobs preparing drawings for engineering projects. Graduates who have satisfactorily completed the curriculum in drafting technology are qualified for both private and civil service employment. Depending on their technical

field of interest and capabilities, students may find employment in any of the following types of jobs: junior draftsman, drafting aide, engineering aide, mechanical draftsman trainee or electrical draftsman trainee.

With experience and further training, graduates may become checkers, senior draftsmen or drafting supervisors in private employment; or they may progress through the draftsman ratings in civil service.

## Associate Degree

|   |              |
|---|--------------|
| <b>REQUIRED COURSES</b>                                 | <b>UNITS</b> |
| GE 1 Introduction to Science Engineering and Technology | 2            |
| GE 2 Introduction to Engineering Drafting               | 3            |
| GE 52 Elementary Engineering Drafting                   | 3            |
| GE 53 Technical Illustration I                          | 3            |
| DRFT 3 Applied Technical Drafting II                    | 4            |
| DRFT 385 Directed Study-Drafting                        | 3            |
|   | <hr/> 18     |
| <b>Electives</b>  | <b>UNITS</b> |
| GE 4 Descriptive Geometry                               | 3            |
| GE 54 Technical Illustration II                         | 3            |
| <b>Recommended</b>                                      |              |
| Mathematics 240   |              |

## ELECTRONICS — ASSOCIATE IN SCIENCE DEGREE AND CERTIFICATE PROGRAM

Designed to prepare students for entry level jobs, specialty training, and job skills upgrading, the electronics program emphasizes the use, manufacture, and servicing of electronics equipment. Job opportunities may be found in the manufacturing, aerospace, and consumer markets.

Training in electronics includes work in mathematics, science, the study of solid state devices and their associated circuits, computers, television, and related subjects.

Two specialty areas of training may be offered beyond the general electronics technology program: computer technology, and communications. The specialty training courses are often attended by people who are employed as technicians who wish to upgrade their skills.

**NOTE:** The core curriculum in electronics is indicated by asterisks below: These courses provide basic electronic training for technicians and are equivalent to Aviation Electronics Technology 1-6.

## Associate Degree

|  |              |
|--|--------------|
| <b>REQUIRED COURSES:</b>               | <b>UNITS</b> |
| ELEC 2 Introduction to Electronics     | 3            |
| *ELEC 4 Fundamentals of Electronics I  | 4            |
| *ELEC 6 Fundamentals of Electronics II | 4            |
| *ELEC 10 Mathematics of Electronics I  | 3            |
| *ELEC 12 Mathematics of Electronics II | 3            |
| **ELEC 20 Electronic Circuits I        | 4            |
| **ELEC 22 Electronic Circuits-II       | 4            |
| **ELEC 24 Electronic Circuits III      | 4            |
| ELEC 54 Computer Logic                 | 4            |
| ELEC 56 Computer Circuits              | 3            |
| ELEC 57 Computer Circuits Laboratory   | 3            |
| PHY 12 Physics Fundamentals            | 3            |
| PHY 14 Physics Fundamentals Laboratory | 1            |
| General education requirements         | 21           |
|  | <hr/> 62     |

| CERTIFICATE REQUIRED COURSES: |                                | UNITS |
|-------------------------------|--------------------------------|-------|
| *ELEC 4                       | Fundamentals of Electronics I  | 4     |
| *ELEC 6                       | Fundamentals of Electronics II | 4     |
| *ELEC 10                      | Mathematics of Electronics I   | 3     |
| *ELEC 12                      | Mathematics of Electronics II  | 3     |
| **ELEC 20                     | Electronic Circuits I          | 4     |
| **ELEC 22                     | Electronic Circuits II         | 4     |
| **ELEC 24                     | Electronic Circuits III        | 4     |
|                               |                                | 26    |

\*CORE I  
\*\*CORE II

(Note: AET 1 may be substituted for ELEC 10 and 12, reducing total units required for the certificate to 24.)

| Recommended courses beyond the certificate |                                 | UNITS |
|--|---------------------------------|-------|
| <b>Computer Technology</b>                 |                                 |       |
| ELEC 54                                    | Computer Logic                  | 4     |
| ELEC 56                                    | Computer Circuits               | 3     |
| ELEC 57                                    | Computer Circuits Laboratory    | 1     |
| <b>Communications</b>                      |                                 |       |
| ELEC 44                                    | Communications Electronics      | 3     |
| <b>Physics</b>                             |                                 |       |
| PHY 12                                     | Physics Fundamentals            | 3     |
| PHY 14                                     | Physics Fundamentals Laboratory | 1     |

**CORE COURSES**

**CORE I**

The mathematics portion of Core I courses parallel the content of Aviation Electronics 1, Scientific Calculator Electronics, Mathematics, Electronics 4 and 6 are the same as AET 2 and 3 in the treatment of DC and AC circuits.

**CORE II**

The prerequisite for Core II courses is satisfactory completion of Core I courses with a "C" or better or equivalent. Electronics 20, 22 and 24 present the same material as AET 4, 5, and 6.

For further information, students are directed to contact a counselor at the airport campus.

**ENGINEERING DRAWING**

See Drafting Technology.

**OFFICE ADMINISTRATION (GENERAL OFFICE) — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM**

The office administration curriculum prepares students for office occupations not requiring shorthand, such as receptionist, word processing secretaries and general typists and clerks. Emphasis is placed on training and skills leading to promotions and advanced positions in general office occupations.

**Associate Degree**

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| ACCT 1           | Introductory Accounting 1                        | 5     |
| OR               |  |       |
| ACCT 21          | Bookkeeping and Accounting 1                     | 3     |
| BUS 1            | Introduction to Business                         | 3     |
| BUS 38           | Business Computations                            | 3     |
| OA 1             | Typewriting I                                    | 3     |
| OA 2             | Typewriting II                                   | 3     |
| OA 3             | Typewriting III                                  | 3     |
| OA 6             | Adding and Calculating Machines                  | 1     |
| OA 7             | Machine Transcription                            | 3     |
| OA 31            | Business English                                 | 3     |
| OA 32            | Business Communications                          | 3     |
| OA 34            | Business Vocabulary and Spelling                 | 2     |
| OA 35            | Word Processing: Concepts in Information Systems | 3     |
| OA 79            | Word Processing: Applications                    | 3     |
|                  |  | 36-38 |

**Certificate**

|        |  | UNITS |
|--------|--|-------|
| BUS 38 | Business Computations                            | 3     |
| OA 2   | Typewriting II                                   | 3     |
| OA 3   | Typewriting III                                  | 3     |
| OA 7   | Machine Transcription                            | 3     |
| OA 31  | Business English                                 | 3     |
| OA 32  | Business Communications                          | 3     |
| OA 34  | Business Vocabulary and Spelling                 | 2     |
| OA 35  | Word Processing: Concepts in Information Systems | 3     |
| OA 79  | Word Processing: Applications                    | 3     |
|        |  | 26    |

**OFFICE ADMINISTRATION (WORD PROCESSING OPTION) — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM**

This program is designed for the student who desires to follow a career operating text-editing equipment in a word processing environment.

**Associate Degree**

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| ACCT 1           | Introductory Accounting 1                        | 5     |
| OR               |  |       |
| ACCT 21          | Bookkeeping & Accounting 1                       | 3     |
| BDP 65           | Business Systems Applications for Microcomputers | 4     |
| BUS 1            | Introduction to Business                         | 3     |
| OA 3             | Typewriting III                                  | 3     |
| OA 6             | Adding and Calculating Machines                  | 1     |
| OA 7             | Machine Transcription                            | 3     |
| OA 31            | Business English                                 | 3     |
| OA 32            | Business Communications                          | 3     |
| OA 34            | Business Vocabulary and Spelling                 | 2     |
| OA 35            | Word Processing: Concepts in Information Systems | 3     |
| OA 39            | Word Processing: Keyboarding and Operations      | 3     |
| MGNT 1           | Principles of Management                         | 3     |
| OR               |  |       |
| OA 59            | Supervision of a Word Processing Center          | 3     |
| OA 79            | Word Processing Applications                     | 3     |
|                  |  | 34-36 |

**RECOMMENDED ELECTIVES**

|         |                               | UNITS |
|---------|-------------------------------|-------|
| MGNT 31 | Human Relations for Employees | 3     |
| MGNT 33 | Personnel Management          | 3     |
| LAW 1   | Business Law                  | 3     |
| BUS 38  | Business Computations         | 3     |

### Certificate

|         |                                  |   |  |                                   |              |
|---------|----------------------------------|---|--|-----------------------------------|--------------|
| ACCT 1  | Introductory Accounting<br>OR    | 5 | RE 7   | Real Estate Finance I             | 3            |
| ACCT 21 | Bookkeeping and Accounting I     | 3 | RE 9   | Real Estate Appraisal I           | 3            |
| OA 3    | Typewriting III                  | 3 | RE 21  | Real Estate Economics             | 3            |
| OA 6    | Adding and Calculating Machines  | 1 | RE   | Electives                         | 12           |
| OA 7    | Machine Transcription            | 3 |  |                                   | <hr/> 30     |
| OA 31   | Business English                 | 3 | <b>ELECTIVES (Select specialization desired)</b> |                                   | <b>UNITS</b> |
| OA 32   | Business Communications          | 3 | RE 4   | Real Estate Office Administration | 3            |
| OA 34   | Business Vocabulary and Spelling | 2 | RE 11  | Escrow Principles                 | 3            |
| OA 35   | Word Processing:                 |   | RE 12  | Escrow Practices                  | 3            |
|         | Concepts in Information Systems  | 3 | RE 14  | Property Management               | 3            |
| OA 39   | Word Processing:                 |   | RE 16  | Income Tax Aspects of Real Estate | 3            |
|         | Keyboarding and Operations       | 3 | RE 18  | Real Estate Investments           | 3            |
| OA 79   | Word Processing Applications     | 3 | RE 60  | Real Estate Mathematics           | 3            |
|         |                                  |   | MGMT 2   | Work Experience                   | 1-4          |
|         |                                  |   | MKTG 1   | Organization & Management Theory  | 3            |
|         |                                  |   |  | Principles of Selling             | 3            |

27-29

NOTE: All former Secretarial Science classes are now listed as Office Administration.

### REAL ESTATE — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM

The Associate in Arts Degree in real estate is designed for the serious student who seeks a rewarding career as a real estate professional. The degree offers a vigorous academic program exploring all facets of the real estate profession. Completion of the degree program fulfills the education requirements for the California Real Estate Broker's License.

### Certificate — Real Estate

Students who satisfactorily complete 24 units of the courses listed below are granted a Real Estate Certificate. All of the required courses must be completed for the Certificate. Possession of the Certificate also fulfills the education requirements for the California Real Estate Broker's license.

|       |                                |          |
|-------|--------------------------------|----------|
| RE 1  | Real Estate Principles         | 3        |
| RE 3  | Real Estate Practices          | 3        |
| RE 5  | Legal Aspects of Real Estate I | 3        |
| RE 7  | Real Estate Finance I          | 3        |
| RE 9  | Real Estate Appraisal I        | 3        |
| RE 21 | Real Estate Economics          | 3        |
|       | Real Estate Electives          | 6        |
|       |                                | <hr/> 24 |

Holders of the Certificate are eligible for membership in the Real Estate Certificate Institute, an organization which actively supports professional education in this field. As the Institute becomes increasingly visible in the real estate community, members may find enhanced opportunities for employment and/or advancement.

### Associate Degree

|                         |                                |              |
|-------------------------|--------------------------------|--------------|
| <b>REQUIRED COURSES</b> |                                | <b>UNITS</b> |
| RE 1                    | Real Estate Principles         | 3            |
| RE 3                    | Real Estate Practice           | 3            |
| RE 5                    | Legal Aspects of Real Estate I | 3            |



### Certificate — Escrow

Students who satisfactorily complete 24 units as listed below qualify for the Escrow Certificate. The escrow field is constantly growing in the Los Angeles area, as the escrow officer holds a very responsible position in every real estate transaction. The holder of an Escrow Certificate is in an excellent position to obtain responsible employment in the field.

|       |                                   | UNITS |
|-------|-----------------------------------|-------|
| RE 1  | Real Estate Principles            | 3     |
| RE 5  | Legal Aspects of Real Estate I    | 3     |
| RE 7  | Real Estate Finance I             | 3     |
| RE 9  | Real Estate Appraisal I           | 3     |
| RE 11 | Escrow Principles                 | 3     |
| RE 12 | Escrow Practices                  | 3     |
| RE 16 | Income Tax Aspects of Real Estate | 3     |
| RE 18 | Real Estate Investments           | 3     |
|       |                                   | 24    |

#### OPTIONAL CLASSES

|         |                                 | UNITS |
|---------|---------------------------------|-------|
| MGMT 13 | Human Relations for Employees   | 3     |
| RE 6    | Legal Aspects of Real Estate II | 3     |
| RE 8    | Real Estate Finance II          | 3     |
| RE 10   | Real Estate Appraisal II        | 3     |
| RE 14   | Property Management             | 3     |
| RE 32   | Real Estate Review              | 2     |
| RE 35   | Today in Real Estate            | 3     |

### Continuing Education in Real Estate

Every real estate licensee in California is required to complete 45 credit hours of Continuing Education every four years prior to license renewal. The following courses qualify for Continuing Education credit.

|       |                                   | HOURS |
|-------|-----------------------------------|-------|
| RE 14 | Property Management               | 18    |
| RE 16 | Income Tax Aspects of Real Estate | 42    |
| RE 18 | Real Estate Investments I         | 42    |

Students must enroll in these courses for college credit and take all examinations. Students who attend 90% of the class meetings will receive continuing education certificates attesting to this fact.

Students **may not** use the same course to satisfy both the broker's license education requirements and the continuing education requirements.

### TRAVEL — ASSOCIATE IN ARTS DEGREE AND CERTIFICATE PROGRAM

The travel industry is today a major economic and social force in the world. Travel by millions of people brings about inter-relationships of enormous importance in domestic and international affairs.

The number of Travel Agencies in the United States has grown from 10,000 in 1972 to more than 25,000 in 1986. Today, the travel industry offers more challenging opportunities than ever before, to the person who is prepared to meet the requirements of this interesting field.

Instruction is offered for persons wishing to enter the travel industry, and for persons already in the travel industry who wish to develop greater competency in their profession. The college is fully accredited by the Western College Association of Schools and Colleges

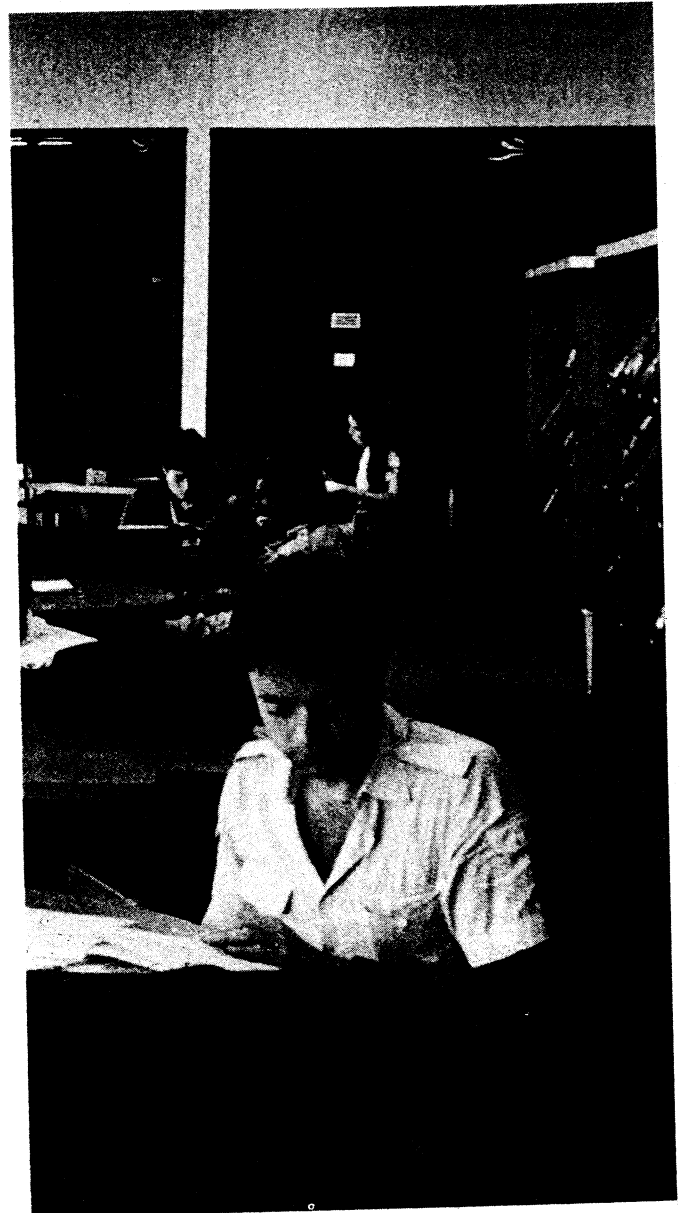
### Certificate

The Basic Certificate serves newcomers in the field preparing for entry-level positions. To earn this Certificate, students must complete each of the following courses (no substitutions permitted):

#### BASIC CERTIFICATE

| REQUIRED COURSES |                                 | UNITS |
|------------------|---------------------------------|-------|
| TRAV 1           | Introduction to Travel Industry | 3     |
| TRAV 2           | Travel Agency Operation         | 3     |
| TRAV 3           | Domestic Airline Ticketing      | 3     |
| TRAV 5           | International Airline Ticketing | 3     |
| TRAV 7           | Travel Geography Part I         | 3     |
| TRAV 9           | Travel Salesmanship             | 3     |
|                  |                                 | 18    |

The Advanced Certificate is designed for persons who already have experience in the travel industry and who desire additional education in Travel, as well as for students who have completed the Basic Certificate program. Students must complete any six of the following eight courses, for a total of 18 units (no substitutions permitted):





**ADVANCED CERTIFICATE**

| Choose any 6 of these 8 courses (no substitutions permitted) |  | UNITS |
|--|--|-------|
| TRAV 4   | Advanced Domestic Airline Ticketing      | 3     |
| TRAV 6   | Advanced International Airline Ticketing | 3     |
| TRAV 8   | Travel Geography Part II                 | 3     |
| TRAV 10  | Advanced Travel Agency Operations        | 3     |
| TRAV 11  | Tour Guiding & Tour Packaging            | 3     |
| TRAV 12  | Travel Agency Bookkeeping                | 3     |
| TRAV 15  | Travel Marketing & Sales Management      | 3     |
| TRAV 17  | Travel Agency Ethics & Law               | 3     |
|  |  | 18    |

Students who were working towards a Travel Certificate prior to Fall 1983 (when the requirements were Travel 1 thru Travel 9 inclusive), may continue under those specifications if they wish.

In order to receive a Certificate of Completion in Travel, students must submit a petition when they have completed the requirements for the Certificate.

**Associate Degree**

Students completing this curriculum should be prepared and available for opportunities for employment, and/or advancement in present employment, in various areas of the travel industry. The Degree requirements will be fulfilled by completing all 14 Travel classes, plus 18 semester units of general education subjects, as described elsewhere in this catalog, making a total of 60 semester units.

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| TRAV 1           | Introduction to Travel Industry          | 3     |
| TRAV 2           | Travel Agency Operations                 | 3     |
| TRAV 3           | Domestic Airline Ticketing               | 3     |
| TRAV 4           | Advanced Domestic Airline Ticketing      | 3     |
| TRAV 5           | International Airline Ticketing          | 3     |
| TRAV 6           | Advanced International Airline Ticketing | 3     |
| TRAV 7           | Travel Geography Part I                  | 3     |
| TRAV 8           | Travel Geography Part II                 | 3     |
| TRAV 9           | Travel Salesmanship                      | 3     |
| TRAV 10          | Advanced Travel Agency Operations        | 3     |
| TRAV 11          | Tour Guiding and Tour Packaging          | 3     |
| TRAV 12          | Travel Agency Bookkeeping                | 3     |
| TRAV 15          | Travel Marketing & Sales Management      | 3     |
| TRAV 17          | Travel Agency Ethics & Law               | 3     |
|                  |  | 42    |

**Cooperative Work Experience Education**

**Types of Education**

- A. Cooperative Work Experience Education consists of the following:
  1. *General Work Experience Education* — Supervised employment which is intended to assist students in acquiring desirable work habits, attitudes and career awareness.  
The work experience need not be related to the student's educational goals.
  2. *Occupational Work Experience Education* — Supervised employment extending classroom based occupational learning at an on-the-job learning station related to the student's educational or occupational goal.

B. Participation may be under either of the following formats:

1. *Parallel Plan*. A form of Cooperative Work Experience Education designed to offer students the opportunity to attend college classes and earn college credit for concurrent learning on the job.
2. *Alternate Plan*. A form of Cooperative Work Experience Education designed to offer students opportunities alternately to attend college and work as stipulated in the District Plan.

**College Credit**

For the satisfactory completion of all types of Cooperative Work Experience Education, students may earn up to a total of 16 semester credit hours, subject to the following limitations:

- A. *General Work Experience Education*
  1. *Parallel Plan*. A maximum of three credit hours per semester may be earned up to a total of six semester credit hours.
  2. *Alternate Plan*. A maximum of six semester credit hours may be earned.
- B. *Occupational Work Experience Education*
  1. *Parallel Plan*. A maximum of four credit hours per semester may be earned up to a total of 16 semester credit hours.
  2. *Alternate Plan*. A maximum of eight credit hours may be earned during one enrollment period up to a total of 16 semester credit hours.

**Student Qualifications**

- A. In order to participate in Cooperative Work Experience Education students shall meet the following criteria:
  1. Pursue a planned program of Cooperative Work Experience Education which, in the opinion of the Instructor, includes new or expanded responsibilities or learning opportunities beyond those experienced during previous employment.
  2. Have on-the-job learning experiences that contribute to their occupational or educational goals.
  3. Have Instructor approval.
  4. Meet the following condition if self-employed: Identify a person who is approved by the Instructor to serve as the designated employer representative. This representative shall agree in writing to accept the following employer responsibilities:
    - a. Assist the student in identifying new or expanded on-the-job learning objectives.
    - b. Assist in the evaluation of the student's identified on-the-job learning objectives.
    - c. Validate hours worked.
- B. In addition, a student shall:
  1. Be an apprentice as defined by Labor Code Section 3077 who is enrolled in related or supplementary courses required of the apprenticeship programs; or
  2. Be enrolled in the Parallel Plan.
    - a. During regular semesters, students must enroll in a minimum of *seven units* including Cooperative Work Experience Education.
    - b. During summer sessions, students must enroll in one other class in addition to Cooperative Work Experience Education; or

3. Be enrolled in the Alternate Plan. Concurrent enrollment will be limited to one other class.
  - a. Students must earn *at least 7 units* of other class work before re-enrolling under the Alternate Plan.
  - b. Students may not transfer between Parallel and Alternate Plans until they have earned *at least 7 units* of other class work.

*Please note: Students must complete all other class work, i.e., the 7 unit requirement, at the District College through which they have enrolled in Cooperative Work Experience Education.*

**Campus Procedure**

Register for the class with the proper ticket number. Participation in this program requires that students must:

1. For vocational credit, have a job directly related to their occupational major; the placement office will help.
2. Obtain an Application for Enrollment and a Work Agreement from the Cooperative Education Office.
3. Complete the Application for Enrollment.
4. Complete objectives and sign the Work Agreement.
5. Be interviewed by the instructor of the Work Experience Education class before receiving final approval.
6. Take the Work Agreement to the employer for approval.

Each student is required to attend a lecture section one hour per week for the semester.

**Cooperative Education Credit Guide**

**UNIVERSITY OF CALIFORNIA: APPROVED COOPERATIVE EDUCATION SUBJECT AREAS**

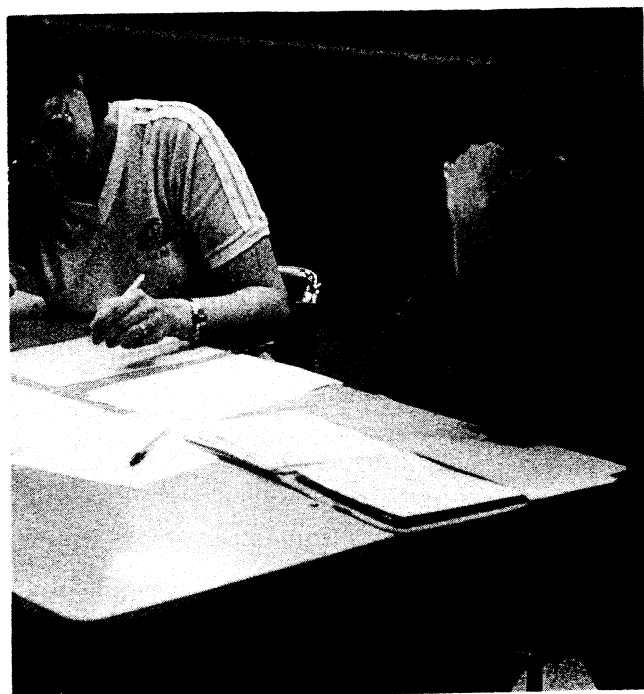
University of California policy provides that a maximum of six (6) semester units of Cooperative Education courses completed in the subject areas listed below may be applied toward the University of California 56 unit admission requirement.

- |   |                      |
|---|----------------------|
| Afro-American Studies                         | Jewish Studies       |
| Agriculture                                   | Linguistics          |
| Anthropology                                  | Mathematics          |
| Art   | Meteorology          |
| Astronomy                                     | Microbiology         |
| Biology                                       | Mineralogy           |
| Botany  | Music                |
| Chemistry                                     | Oceanography         |
| Chicano Studies                               | Philosophy           |
| Economics                                     | Physical Education   |
| Education                                     | Physics              |
| Engineering                                   | Physiology           |
| English                                       | Political Science    |
| Environmental Science (Environmental Studies) | Psychology           |
| Family & Consumer Studies                     | Recreation           |
| Foreign Languages                             | Social Science       |
| Geography                                     | Sociology            |
| Geology                                       | Speech Communication |
| History                                       | Statistics           |
| Humanities                                    | Theater              |
|   | Zoology              |

**CALIFORNIA STATE UNIVERSITY: APPROVED COOPERATIVE EDUCATION SUBJECT AREAS**

Los Angeles Community College District policy provides that a maximum of eight (8) semester units in Cooperative Education courses completed in the subject areas listed below may be applied toward the California State University 56 unit admission requirement.

- |   |   |
|---|---|
| Accounting                                | Dairy Husbandry                               |
| Administration of Justice                 | Drafting                                      |
| Afro-American Studies                     | Economics                                     |
| Agriculture                               | Education                                     |
| Air Conditioning Technology               | Electronics                                   |
| Aircraft Electronics Technology           | Electronics Technician                        |
| Animal Husbandry                          | Electronics Technology                        |
| Anthropology                              | Engineering                                   |
| Architecture                              | English                                       |
| Art                                       | Environmental Science (Environmental Studies) |
| Astronomy                                 | Family and Consumer Studies                   |
| Aviation Maintenance Technician           | Fire Science                                  |
| Biology                                   | Foreign Languages                             |
| Botany                                    | Geography                                     |
| Broadcasting                              | Geology                                       |
| Business                                  | Health  |
| Business Data Processing                  | History                                       |
| Chemistry                                 | Humanities                                    |
| Chicano Studies                           | Industrial Arts                               |
| Child Development                         | Jewish Studies                                |
| Cinema                                    | Journalism                                    |
| Commercial Art                            | Law   |
| Computer Maintenance Technician           | Linguistics                                   |
| Computer Science - Information Technology | Management                                    |
| Computer Technology                       | Mathematics                                   |
|   | Mechanical Drafting                           |
|   | Medical Record Science                        |
|   | Merchandise Display                           |



|   |                        |
|---|------------------------|
| (Visual Merchandising & Display)            | Political Science      |
| Merchandising (Marketing)                   | Psychology             |
| Meteorology                                 | Public Service         |
| Microbiology                                | Real Estate            |
| Mineralogy                                  | Recreation             |
| Music                                       | Respiratory Therapy    |
| Natural Resources Management                | Restaurant Management  |
| Nursing                                     | Sign Graphics          |
| Oceanography                                | Social Science         |
| Office Administration (Secretarial Science) | Sociology              |
| Philosophy                                  | Speech                 |
| Photography                                 | Statistics             |
| Photography, Commercial (Photography-T)     | Technical Illustration |
| Physical Education                          | Television             |
| Physics                                     | Theater                |
| Physiology                                  | Transportation         |
|   | Urban Planning         |
|   | Water Systems          |
|   | Technology             |
|   | Zoology                |

|   |                           |              |
|---|---------------------------|--------------|
| <b>AT LEAST SIX UNITS FROM THE FOLLOWING:</b> |                           | <b>UNITS</b> |
| PSYCH 1                                       | General Psychology        | 3            |
| PSYCH 13                                      | Social Psychology         | 3            |
| SOC 1   | Introduction to Sociology | 3            |
| SOC 2   | American Social Problems  | 3            |
| SOC 4   | Sociological Analysis     | 3            |

|   |   |              |
|---|---|--------------|
| <b>AT LEAST THREE UNITS FROM THE FOLLOWING:</b> |   | <b>UNITS</b> |
| BIO 3   | Introduction to Biology                       | 3            |
| ENV SCI 1                                       | Man and his Environment: Physical Processes   | 3            |
| ENV SCI 2                                       | Man and his Environment: Biological Processes | 3            |
| GEOG 1  | Physical Geography                            | 3            |
| GEOL 1  | Physical Geology                              | 3            |
|   |   | <b>21</b>    |

|                            |  |              |
|----------------------------|--|--------------|
| <b>RECOMMENDED COURSES</b> |  | <b>UNITS</b> |
| CO SCI 1                   | Principles of Business Data Processing I | 3            |
| HIST 1                     | Introduction to Western Civilization I   | 3            |
| HIST 2                     | Introduction to Western Civilization II  | 3            |
| MATH 225                   | Introductory Statistics                  | 3            |
| PHIL 8                     | Deductive Logic                          | 3            |
| PHIL 9                     | Symbolic Logic                           | 3            |

## Transfer Programs

As explained under "Graduation Requirements," the Associate Degree requires at least 18 semester units of study in a discipline or related disciplines. This section details the exact courses required in each major to fulfill this requirement. Students must be sure, however, to fulfill every graduation requirement and to see a counselor for accurate information on four-year institution lower-division requirements.

### ANTHROPOLOGY — ASSOCIATE IN ARTS DEGREE

The Associate Degree program in anthropology is designed for those who wish to complete a Baccalaureate degree in the field at a four year institution or a university. Professional opportunities which such a curriculum could lead to occur in archaeology, linguistics, the social and natural sciences, international affairs, urban renewal, social welfare, museum work, the national park service, conservation programs, and zoological institutions. Anthropology also provides valuable background for those seeking careers in such fields as sociology, psychology, social work, medicine, nursing and mental health, the foreign service and trade, geriatrics, child development, journalism, documentary film production, and the legal professions.

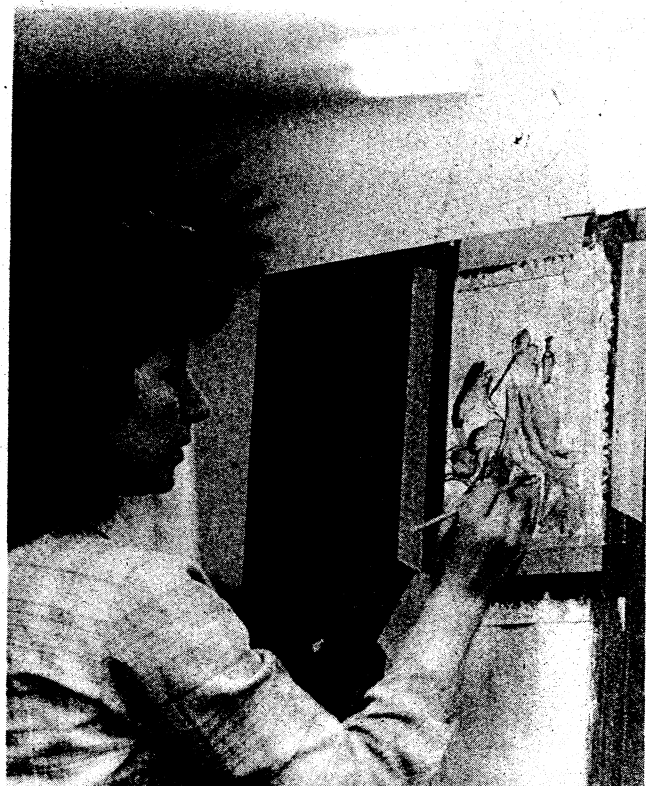
#### Associate Degree

|                         |   |              |
|-------------------------|---|--------------|
| <b>REQUIRED COURSES</b> |   | <b>UNITS</b> |
| ANTH 101                | Human Biological Evolution                | 3            |
| ANTH 102                | Human Ways of Life: Cultural Anthropology | 3            |

|   |   |              |
|---|---|--------------|
| <b>AT LEAST SIX UNITS FROM THE FOLLOWING:</b> |   | <b>UNITS</b> |
| ANTH 103                                      | Archaeology: Reconstructing the Human Past      | 3            |
| ANTH 121                                      | Anthropology of Religion, Magic, and Witchcraft | 3            |
| ANTH 124                                      | Sex Roles in Human Societies                    | 3            |
| ANTH 132                                      | North American Indians                          | 3            |
| ANTH 133                                      | The Peoples and Cultures of Africa              | 3            |

### ART — ASSOCIATE IN ARTS DEGREE

The Associate Degree program in art enables a student to transfer to a Baccalaureate program at a four-year institution. The art curriculum has been planned for those intending to enter the fields of design, illustration, art history, and art education.



## Associate Degree

### CORE PROGRAM

Required of all Art majors.

|  | UNITS |
|--|-------|
| ART 101 Survey of Art History I            | 3     |
| ART 102 Survey of Art History II           | 3     |
| ART 201 Drawing I                          | 3     |
| ART 202 Drawing II                         | 3     |
| ART 501 Beginning Two-Dimensional Design   | 3     |
| ART 502 Beginning Three-Dimensional Design | 3     |
|  | 18    |

### Drawing and Painting Option Requirements

Minimum of 12 units in addition to the above Core Program requirements.

6 units from Art 204, 205, 209

6 units from Art 300, 301, 305, 306, 307

### Ceramics Option Requirements

Minimum of 12 units in addition to the above Core Program requirements.

12 units from Art 502, 706, 708, 709, 710, 711

## BIOLOGY — ASSOCIATE IN ARTS DEGREE

The Biology Associate Degree program is intended for those students who wish to transfer to a four-year institution and major in a biological science. This curriculum is generally required of pre-dental, pre-medical, pre-optometry, pre-pharmacy, and pre-veterinary students.

### Associate Degree

#### REQUIRED COURSES

|   | UNITS |
|---|-------|
| BIO 6 General Biology I   | 5     |
| BIO 7 General Biology II  | 5     |
| <b>AND COMPLETE THE COURSES IN THREE OF THE FOLLOWING FOUR GROUPS</b> |       |
| <b>GROUP 1:</b>   |       |
| CHEM 1 and General Chemistry I  | 5     |
| CHEM 2 General Chemistry II   | 5     |

|                 |  |       |
|-----------------|--|-------|
| <b>GROUP 2:</b> | General Physics I                      | 4     |
| PHY 6 and       | General Physics II                     | 4     |
| PHY 7           | OR                                     |       |
|                 | Mechanics, Wave Motion and Heat        | 5     |
| PHY 8 and       | Electricity Magnetism, Light, Particle |       |
| PHY 9           | and Nuclear Physics                    | 5     |
| <b>GROUP 3:</b> | Introductory Organic Chemistry         | 5     |
| CHEM 14 and     | Introductory Biochemistry              | 5     |
| CHEM 15         |  |       |
| <b>GROUP 4:</b> | Introduction to Analysis               | 5     |
| MATH 260        | Calculus I                             | 5     |
| MATH 261        |  |       |
|                 |  | 38-40 |

## BIOLOGY (HEALTH SCIENCE OPTION) — ASSOCIATE IN ARTS DEGREE

The Health Science option of the Biology Associate Degree program provides an orientation to the health sciences while including the general background required for the fields of nursing, dental hygiene, respiratory therapy, physical therapy, and other health fields.

### Associate Degree

#### REQUIRED COURSES

|   | UNITS |
|---|-------|
| ANAT 1 Introduction to Human Anatomy      | 4     |
| BIO 5 Introduction to Human Biology       | 4     |
| CHEM 3 Introductory Chemistry OR          | 5     |
| CHEM 10 Introduction to General Chemistry | 5     |
| MICRO 20 General Microbiology             | 4     |
| PHYSIO 1 Elementary Physiology            | 4     |
|   | 26    |

#### RECOMMENDED COURSES

|  | UNITS |  |
|--|-------|--|
| CHEM 1 General Chemistry I                           | 5     |  |
| CHEM 9 Introductory Organic and Biochemistry         | 4     |  |
| PSYCH 1 General Psychology I                         | 3     |  |
| SOC 1 Introduction to Sociology                      | 3     |  |
|  |       |  |
|  | OR    |  |
| SOC 2 American Social Problems                       | 3     |  |
|  | OR    |  |
| ANTHRO 102 Human Ways of Life: Cultural Anthropology | 3     |  |



**NOTE:** Always review requirements of institution to which you plan to transfer. For instance, Cal State Northridge requires Math 41 for Cellular and Molecular Option and Chemistry 5 for Medical Technology Option.

## BUSINESS ADMINISTRATION — ASSOCIATE IN ARTS DEGREE

The Associate Degree program in business administration enables the student to transfer to a Baccalaureate program at a four-year institution. Career opportunities are available in multiple fields, including accounting managers, stockbrokers, financial consultants, insurance brokers, marketing managers and computer specialists. In addition, the prospective professor of business may get a start in the Associate and Baccalaureate programs in business administration.

### Associate Degree

| REQUIRED COURSES |   | UNITS |
|------------------|---|-------|
| ACCT 1           | Introductory Accounting I                               | 5     |
| ACCT 2           | Introductory Accounting II                              | 5     |
| CS 1             | Principles of Business Data Processing I                | 3     |
| ECON 1           | Principles of Economics I                               | 3     |
| ECON 2           | Principles of Economics II                              | 3     |
| LAW 1            | Business Law I  | 3     |
| MATH 235         | Mathematical Analysis for Business and Social Science I | 5     |
|                  |   | 27    |

| RECOMMENDED |  | UNITS |
|-------------|--|-------|
| CS 3        | Business Computer Programming                          | 3     |
| LAW 2       | Business Law II  | 3     |
| MGMT 1      | Principles of Management                               | 3     |
| MGMT 2      | Organization and Management Theory                     | 3     |
| MATH 236    | Mathematical Analysis for Business & Social Science II | 4     |
| MKTG 21     | Foreign Language Principles of Marketing               | 3     |

## CHEMISTRY — ASSOCIATE IN ARTS DEGREE

The Associate Degree in chemistry will provide most lower division requirements for the student planning to transfer to a four-year institution with a chemistry major while at the same time establishing a strong basic foundation in this science.

### Associate Degree

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| CHEM 1           | General Chemistry I  | 5     |
| CHEM 2           | General Chemistry II                                       | 5     |
| CHEM 14          | Introductory Organic Chemistry                             | 5     |
| CHEM 15          | Introductory Biochemistry                                  | 5     |
| MATH 262         | Calculus II  | 5     |
| MATH 263         | Calculus III   | 5     |
| PHY 8            | Mechanics, Wave Motion and Heat                            | 5     |
| PHY 9            | Electricity Magnetism, Light, Particle and Nuclear Physics | 5     |
|                  |  | 40    |

## CHILD DEVELOPMENT — ASSOCIATE IN ARTS DEGREE

The following curriculum is a general pattern for students wishing to transfer to CSULB, CSULA, CSUN, or CSUSD.

## Associate Degree

| REQUIRED COURSES |  | UNITS |
|------------------|--|-------|
| CD 1             | Child Growth and Development                       | 3     |
| CD 2             | The Child and the School                           | 3     |
| CD 3             | Creative Experiences for Children                  | 3     |
| CD 11            | Home, School and Community Relations               | 3     |
| CD 21            | Child Development Practice                         | 3     |
| CD 41            | Organization and Administration of Nursing Schools | 3     |
| FCS 21           | Nutrition (strongly recommended)                   | 3     |
| SOC 1            | Introduction to Sociology OR                       | 3     |
| ANTH 102         | Human Ways of Life: Cultural Anthropology          | 3     |
| PSYCH 1          | General Psychology I                               | 3     |
|                  |  | 27    |

| RECOMMENDED |   | UNITS |
|-------------|---|-------|
| CH DEV 30   | Infant Studies                              | 3     |
| CH DEV 34   | Observing and Recording Children's Behavior | 3     |
| SOC 12      | Marriage and Family Life OR                 | 3     |
| PSYCH 16    | Love and Marriage                           | 3     |

## ECONOMICS — ASSOCIATE IN ARTS DEGREE

The following curriculum is a general pattern for students wishing to transfer to a four-year institution as an economics major. Careers in business, education, writing, and government are open to those with advanced work in this field.

### Associate Degree

| REQUIRED COURSES |   | UNITS |
|------------------|---|-------|
| ACCT 1           | Introductory Accounting I   | 5     |
| ECON 1           | Principles of Economics I   | 3     |
| ECON 2           | Principles of Economics II  | 3     |
| MATH 225         | Introductory Statistics   | 3     |
| MATH 235         | Mathematical Analysis for Business and Social Sciences I (if Math 235 is elected, add ECON 10*) | 5     |
|                  | OR  |       |
| MATH 261         | Calculus I  | 5     |
| MATH 226         | Elementary Statistics Problem Solving   | 1     |
|                  |   | 20-23 |

\*Economics 10 is equivalent to History 15.

#### Recommended Courses:

Social science courses beyond the general education requirement, additional mathematics courses, and BDP 22.

## ENGINEERING — ASSOCIATE IN ARTS DEGREE

The following curriculum is a general pattern for students wishing to transfer to CSULB, CSULA, CSUN, UCLA, or USC.

### Associate Degree

| REQUIRED COURSES |   | UNITS |
|------------------|---|-------|
| CHEM 1           | General Chemistry I   | 5     |
| CHEM 2*          | General Chemistry II  | 5     |
| ENGR 1           | Introduction to Science, Engineering & Technology           | 2     |
| ENGR 2           | Introduction to Engineering Drafting                        | 3     |
| ENGR 4           | Engineering Descriptive Geometry                            | 3     |
| ENGR 7           | Statics   | 3     |
| MATH 261         | Calculus I  | 5     |
| MATH 262         | Calculus II   | 5     |
| MATH 263         | Calculus III  | 5     |
| PHY 8            | Mechanics, Wave Motion & Heat                               | 5     |
| PHY 9            | Electricity, Magnetism, Light, Particle and Nuclear Physics | 5     |
| PHY 10           | Topics for Engineering and Science Majors                   | 4     |

NOTE: PHYS 8 and 10 are only offered in the spring semesters. PHYS 9 is only offered in the fall semesters.

\*Check with the appropriate university catalog to determine the need for CHEM 2.

## ENGLISH — ASSOCIATE IN ARTS DEGREE

The English sequence is recommended for those who wish to obtain the Baccalaureate degree in this field. Emphasis is placed on meeting common lower division university requirements.

### Associate Degree

#### REQUIRED COURSES

|   |  |   |
|---|--|---|
| ENG 101                                   | College Reading & Composition I  | 3 |
| ENG 102                                   | College Reading & Composition II   | 3 |
| <b>AND 6 UNITS FROM OPTION A, B, OR C</b> |  |   |
| OPTION A                                  | English 205 and 206 (English Literature I and II) recommended for students transferring to the UC system   |   |
| OPTION B                                  | English 211, 212, 213 (Fiction, Poetry, Drama) recommended for students transferring to the CSU system     |   |
| OPTION C                                  | English 203, 204 (World Literature I and II) Recommended for students transferring to private universities |   |

#### 6 units of electives from the following:

- Foreign Language through Course 4
- Philosophy 24 (Introduction to the Philosophy of Literature)
- English 127, 203, 204, 205, 206, 207, 208, 211, 212, 213, 215, 240, 251.

NOTE: **Always** review requirements of institution to which you plan to transfer.

See a counselor for accurate planning and current information.

## FRENCH — ASSOCIATE IN ARTS DEGREE

The Associate Degree program in French enables a student to transfer to a Baccalaureate program at a four-year institution. Professional opportunities which such a curriculum could lead to occur in foreign trade, travel, translating, teaching, and government (especially in the State Department). French also provides valuable background for those pursuing studies in art, music, cinema, and literature.

### Associate Degree

#### REQUIRED COURSES

|             |                        |    |
|-------------|------------------------|----|
| ENGLISH 203 | World Literature I     | 3  |
| ENGLISH 204 | World Literature II    | 3  |
| FRENCH 3    | Intermediate French I  | 5  |
| FRENCH 4    | Intermediate French II | 5  |
| FRENCH 5    | Advanced French I      | 5  |
|             |                        | 21 |

#### RECOMMENDED

Linguistics 1

UNITS  
3

## GEOGRAPHY — ASSOCIATE IN ARTS DEGREE

The following curriculum is a general pattern for students wishing to transfer to CSUDH, CSULB, CSULA, CSUSD, CSUN, UCB, UCLA, or USC.

## Associate Degree

#### REQUIRED COURSES

|                  |                                       |    |
|------------------|---------------------------------------|----|
| GEOG 1           | Physical Geography                    | 3  |
| GEOG 2           | Cultural Elements of Geography        | 3  |
| GEOG 7           | World Regional Geography              | 3  |
| MATH 225         | Introductory Statistics               | 3  |
| MATH 226         | Elementary Statistics Problem Solving | 1  |
| Foreign Language | (2 courses)                           | 10 |
|                  |                                       | 23 |

## GEOLOGY — ASSOCIATE IN ARTS DEGREE

The Associate Degree program in geology emphasizes meeting common lower division requirements for this major.

### Associate Degree

#### REQUIRED COURSES

|          |  |    |
|----------|--|----|
| CHEM 1   | General Chemistry I  | 5  |
| CHEM 2   | General Chemistry II                                       | 5  |
| GEOL 1   | Physical Geology   | 3  |
| GEOL 6   | Physical Geology Laboratory                                | 2  |
| MATH 261 | Calculus I   | 5  |
| MATH 262 | Calculus II  | 5  |
| PHYS 8   | Mechanics, Wave Motion and Heat                            | 5  |
| PHYS 9   | Electricity Magnetism, Light, Particle and Nuclear Physics | 4  |
| PHYS 10  | Topics for Engineering and Science Majors                  | 4  |
|          |  | 39 |



## HISTORY — ASSOCIATE IN ARTS DEGREE

The history sequence is designed for those who wish to complete a Baccalaureate degree in the field. Emphasis is placed on meeting lower division university requirements.

### Associate Degree

| REQUIRED COURSES |   | UNITS |
|------------------|---|-------|
| HIST 1           | Introduction to Western Civilization I    | 3     |
| HIST 2           | Introduction to Western Civilization II   | 3     |
| HIST 11*         | Political & Social History of the U.S. I  | 3     |
| HIST 12*         | Political & Social History of the U.S. II | 3     |

| AND 6 UNITS FROM THE FOLLOWING: |  | UNITS |
|---------------------------------|--|-------|
| ANTH 101                        | Human Biological Evolution                     | 3     |
|                                 | OR   |       |
| ANTH 102                        | Human Ways of Life: Cultural Anthropology      | 3     |
| ECON 1                          | Principles of Economics I                      | 3     |
| GEOG 1                          | Physical Geography                             | 3     |
| POL SC 1                        | Government of the United States and California | 3     |
|                                 |  | 18    |

\*For those transferring to UCLA, History 41 and 42 may be substituted for History 11 and 12 respectively.

## JOURNALISM — ASSOCIATE IN ARTS DEGREE

The Associate Degree program in journalism enables a student to transfer as a journalism major to a four-year institution.

### Associate Degree

| REQUIRED COURSES |                                   | UNITS |
|------------------|-----------------------------------|-------|
| ENG 101          | College Reading and Composition I | 3     |
| JOURN 1          | Collecting and Writing News       | 3     |
| JOURN 2          | Advanced Newswriting              | 3     |
| JOURN 5          | Mass Communication                | 3     |
| PSYCH 1          | General Psychology I              | 3     |
| SOC 1            | Introduction to Sociology         | 3     |
|                  |                                   | 18    |

## MATHEMATICS — ASSOCIATE IN ARTS DEGREE

The following curriculum is a general pattern for students wishing to transfer to CSUDH, CSULB, CSULA, CSUSD, CSUN, UCB, UCLA, or USC.

### Associate Degree

| REQUIRED COURSES |   | UNITS |
|------------------|---|-------|
| CHEM 1           | General Chemistry I                                       | 5     |
| CHEM 2           | General Chemistry II                                      | 5     |
| MATH 270         | Linear Algebra  | 3     |
| MATH 260         | Introduction to Analysis                                  | 5     |
| MATH 261         | Calculus I  | 5     |
| MATH 262         | Calculus II   | 5     |
| MATH 263         | Calculus III  | 5     |
| PHYS 8           | Mechanics, Wave Motion and Heat                           | 5     |
| PHYS 9           | Electricity, Magnetism, Light, Particle & Nuclear Physics | 5     |
|                  |   | 43    |

## MUSIC — ASSOCIATE IN ARTS DEGREE

The music curriculum is designed to meet the requirements for students matriculating to a Baccalaureate level program at the four-year colleges and to prepare students for many music vocations and careers.

## Associate Degree

| REQUIRED COURSES |                               | UNITS |
|------------------|-------------------------------|-------|
| MUS 101          | Fundamentals of Music         | 3     |
| MUS 122          | Music History & Literature II | 3     |
| MUS 201          | Harmony I                     | 3     |
| MUS 202          | Harmony II                    | 3     |
| MUS 203          | Harmony III                   | 3     |
| MUS 211          | Musicianship I                | 2     |
| MUS 212          | Musicianship II               | 2     |
|                  | *Performance Organization     | 1     |
| MUS 213          | Musicianship III              | 2     |
|                  | *Performance Organization     | 1     |
| MUS 321          | Elementary Piano I            | 2     |
|                  | *Performance Organization     | 1     |
| MUS 322          | Elementary Piano II           | 2     |
|                  | *Performance Organization     | 1     |
|                  |                               | 29    |

The piano proficiency requirement may be met by examination if the student has had previous training or by MUS 184.

Enrollment in the elementary voice sequence (MUS 411, 412, 413, 414), and/or the elementary piano sequence (MUS 321, 322, 323, 324) and/or the independent study in applied music (MUS 181, 182, 183, 184) is recommended for music majors who are preparing for performance or music education careers.

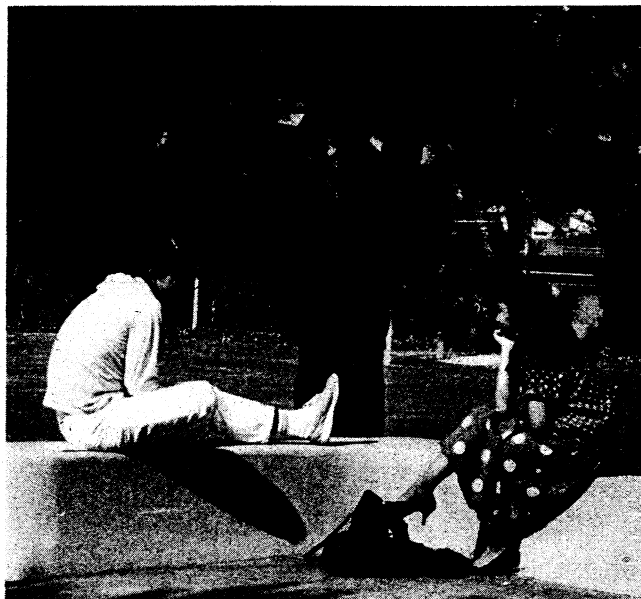
\*The music performance requirement may be satisfied by enrollment in any of the following: MUS 501, College Choir; MUS 561, Chamber Chorale; MUS 775, Jazz Ensemble, or Music 725 Community Orchestra.

## PHILOSOPHY — ASSOCIATE IN ARTS DEGREE

The philosophy sequence is recommended for those who wish to obtain a Baccalaureate degree in this field. Emphasis is placed on meeting common lower division university requirements.

### Associate Degree

| REQUIRED COURSES |                              | UNITS |
|------------------|------------------------------|-------|
| PHIL 1*          | Introduction to Philosophy I | 3     |
| PHIL 20*         | Ethics                       | 3     |
| PHIL 8           | Deductive Logic OR           | 3     |
| PHIL 9           | Symbolic Logic I             | 3     |
| AND              |                              |       |



Select at least 9 units from the following:

|             |   |    |
|-------------|---|----|
| ANTHRO 102  | Human Ways of Life: Cultural Anthropology | 3  |
| ECON 1      | Principles of Economics II                | 3  |
| ENGLISH 203 | World Literature I                        | 3  |
| ENGLISH 204 | World Literature II                       | 3  |
| HISTORY 1   | Introduction to Western Civilization I    | 3  |
| HISTORY 2   | Introduction to Western Civilization II   | 3  |
| PHIL 3      | History of Greek Thought                  | 3  |
| PHIL 4      | History of Modern Thought                 | 3  |
|             |   | 18 |

\*For those transferring to CSUN, Philosophy 3 and 4 may be substituted for Philosophy 1 and 20.

## PHYSICAL EDUCATION — ASSOCIATE IN ARTS DEGREE

While the physical education program emphasizes preparation for a teaching career, the program also helps qualify graduates for careers in fields such as special education, recreation, and athletic training.

### Associate Degree

**REQUIRED COURSES**

|        |                               |   |
|--------|-------------------------------|---|
| ANA 1  | Introduction to Human Anatomy | 4 |
| PHYS 1 | Elementary Physiology         | 4 |
|        | AND                           | 8 |

Select a maximum of 4 units from the following:

|            |                              |     |
|------------|------------------------------|-----|
| PE 102     | Swimming Skills              | 2-2 |
| PE 200-290 | Individual & Dual Activities | 2-2 |
| PE 300-325 | Team Sports                  | 2-2 |
| PE 431-446 | Dance Activities             | 2-2 |
| PE 503-516 | Intercollegiate Sports       | 2-2 |
|            | AND                          | 4   |

Select a maximum of 8 units from the following:

|                  |  |       |
|------------------|--|-------|
| PE 603-652       | Professional and Sports Skills               | 1     |
| PE 702           | Water Safety Instruction                     | 3     |
| PE 710           | Officiating Competitive Sports I             | 2     |
| PE 711           | Officiating Competitive Sports II            | 2     |
| PE 712           | Introduction to Physical Education           | 3     |
| PE 716           | Games & Rhythms for the Elementary School I  | 3     |
| PE 717           | Games & Rhythms for the Elementary School II | 3     |
| PE 801, 802, 803 | Modern Dance I, II, III                      | 3-3-3 |
| PE 805-806       | Ballet I, II                                 | 2-2   |
| PE 814, 815, 816 | Dance Production I, II, III                  | 2-2-3 |
|                  |  | 20    |

## PHYSICS — ASSOCIATE IN ARTS DEGREE

The Associate in Arts Degree in physics will give the student a basic foundation in this field as well as meeting most lower division requirements for the Baccalaureate degree in this field.

### Associate Degree

**REQUIRED COURSES**

|          |  |    |
|----------|--|----|
| CHEM 1   | General Chemistry I  | 5  |
| CHEM 2   | General Chemistry II                                       | 5  |
| MATH 262 | Calculus II  | 5  |
| MATH 263 | Calculus III   | 5  |
| PHYS 8   | Mechanics, Wave Motion and Heat                            | 5  |
| PHYS 9   | Electricity Magnetism, Light, Particle and Nuclear Physics | 5  |
| PHYS 10  | Topics for Engineering and Science Majors                  | 4  |
|          |  | 34 |

**RECOMMENDED**  
FRENCH

**UNITS**  
5

## POLITICAL SCIENCE — ASSOCIATE IN ARTS DEGREE

The political science sequence is for those who desire to complete a Baccalaureate degree in this subject area. Emphasis is on satisfying common lower division university requirements in this major.

### Associate Degree

**REQUIRED COURSES**

|          |  |   |
|----------|--|---|
| HIST 11  | Political and Social History of the United States I  | 3 |
|          | OR   |   |
| HIST 12  | Political and Social History of the United States II | 3 |
| POL SC 1 | The Government of the United States and California   | 3 |
| POL SC 2 | Modern World Governments                             | 3 |
| POL SC 7 | Contemporary World Affairs                           | 3 |

**AND AT LEAST 6 ADDITIONAL UNITS FROM THE FOLLOWING:**

|            |  |    |
|------------|--|----|
| ANTHRO 101 | Human Biological Evolution                 | 3  |
|            | OR   |    |
| SOC 1      | Introduction to Sociology                  | 3  |
| ECON 1     | Principles of Economics I                  | 3  |
| HIST 1     | Introduction to Western Civilization I     | 3  |
|            | OR   |    |
| HIST 2     | Introduction to Western Civilization II    | 3  |
| HIST 13    | The United States in the Twentieth Century | 3  |
|            | OR   |    |
| HIST 14    | Selected Issues of United States History   | 3  |
| POL SC 8   | The Modern Far East                        | 3  |
|            |  | 18 |

(see catalog for History course limitations)

## PSYCHOLOGY — ASSOCIATE IN ARTS DEGREE

The Associate in Arts Degree in psychology is designed for those who wish to complete a Baccalaureate degree in the field. Emphasis is placed on meeting lower division requirements at a four-year institution or university. Professional opportunities which the curriculum could lead to occur in the healing professions; natural sciences; marriage, child, and family counseling; industry and business; public health; social welfare; national park service; environmental improvement





and conservation programs; and zoological institutions. Psychology also provides valuable background for those seeking careers in such fields as anthropology, sociology, social work, law, medicine, nursing and mental health facilities, the foreign service and trade, geriatrics, and child development.

### Associate Degree

| REQUIRED COURSES                               |  | UNITS        |
|--|--|--------------|
| PSYCH 1  | General Psychology I                       | 3            |
| PSYCH 2  | General Psychology II                      | 3            |
| MATH 225                                       | Introductory Statistics                    | 3            |
| <b>At least NINE units from the following:</b> |  | <b>UNITS</b> |
| PSYCH 3  | Personality and Social Development         | 3            |
| PSYCH 4  | Applied Psychology                         | 3            |
| PSYCH 14                                       | Abnormal Psychology                        | 3            |
| PSYCH 16                                       | Love and Marriage                          | 3            |
| PSYCH 52                                       | Psychological Aspects of Human Sexuality   | 3            |
| <b>RECOMMENDED</b>                             |  | <b>UNITS</b> |
| ANTHRO 101                                     | Human Biological Evolution OR              | 3            |
| ANTHRO 102                                     | Human Ways of Life — Cultural Anthropology | 3            |
| BIO 3  | Introduction to Biology                    | 3            |
| BIO 6  | Introductory Chemistry                     | 3            |
| CHEM 3   | Introductory Chemistry                     | 3            |
| PHYSICS 12                                     | Physics Fundamentals                       | 3            |
| PHYSIO 1                                       | Elementary Physiology                      | 4            |
| SOC 1  | Introduction to Sociology                  | 3            |

### SOCIOLOGY — ASSOCIATE IN ARTS DEGREE

The sociology curriculum meets common lower division requirements while emphasizing the cultural background and analytic skills required of sociology majors in four-year institutions.

A background in Sociology is useful in almost any career in government, law, business, and non-profit organizations. Advanced degrees in Sociology prepare one to do research or analysis of data for government agencies from the Census Bureau to the Center for Disease Control, to city planning agencies and local police forces. Sociologists are employed by large businesses, advertisers, management consultants, and life insurance companies. They work at "think tanks", do individual and family counseling, and work in education at the secondary level, as well as in colleges and universities.

### Associate Degree

| REQUIRED COURSES  |   | UNITS        |
|---|---|--------------|
| SOC 1   | Introduction to Sociology                 | 3            |
| SOC 2   | American Social Problems                  | 3            |
| <b>AND</b>  |   |              |
| <b>At least ONE course from the following 3 unit courses:</b> |   | <b>3</b>     |
| SOC 4   | Sociological Analysis                     |              |
| MATH 225  | Introductory Statistics                   |              |
| CO SCI 1  | Principles of Business Data Processing I  |              |
| PHIL 6  | Logic in Practice                         |              |
| PHIL 8  | Deductive Logic                           |              |
| PHIL 9  | Symbolic Logic I                          |              |
| <b>AND</b>  |   |              |
| 9 units from the following 3 unit courses:                    |   |              |
| Sociology 5, 6, 7, 8, 11, 12, 22                              |   | 9            |
|   |   | <hr/> 18     |
| <b>RECOMMENDED</b>  |   | <b>UNITS</b> |
| ANTH 102  | Human Ways of Life: Cultural Anthropology | 3            |
| GEOG 2  | Cultural Elements of Geography            | 3            |
| <b>AND</b>  |   |              |
| <b>At least ONE from each of the following groups</b>         |   |              |
| — PSYCH 1, 3, 13  |   |              |
| — ECON 1, 2, 10, POL SCI 1                                    |   |              |
| — BIO 4, 5, PSYCH 2, ANTH 101                                 |   |              |
| — HIST 12, 13, 14, 15, 16, 41, 42                             |   |              |
| — PHIL 1, 2, 4, 20, 23  |   |              |

NOTE: Most CSU institutions and UCLA require Mathematics 225 for transfer students in Sociology.

### SPANISH — ASSOCIATE IN ARTS DEGREE

The Associate Degree program in Spanish enables a student to transfer into a Baccalaureate program at a four-year institution. In addition, this curriculum generates and upgrades professional opportunities in business, industry, education, and government work, as well as providing personal enrichment in understanding Hispanic language and culture.

### Associate Degree

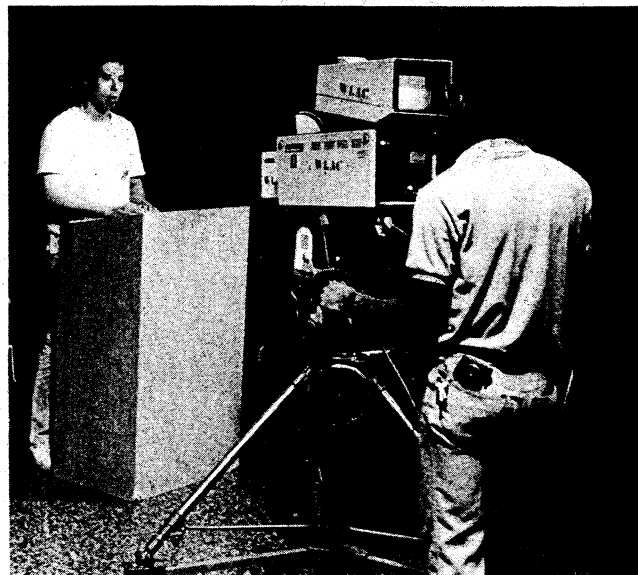
| REQUIRED COURSES   |  | UNITS        |
|--------------------|--|--------------|
| ENGLISH 203        | World Literature I                       | 3            |
| ENGLISH 204        | World Literature II                      | 3            |
| SPANISH 3          | Intermediate Spanish I                   | 5            |
| SPANISH 4          | Intermediate Spanish II                  | 5            |
| SPANISH 5          | Advanced Spanish I                       | 5            |
|                    |  | <hr/> 21     |
| <b>RECOMMENDED</b> |  | <b>UNITS</b> |
| LINGUISTICS 1      | Introduction to Language and Linguistics | 3            |

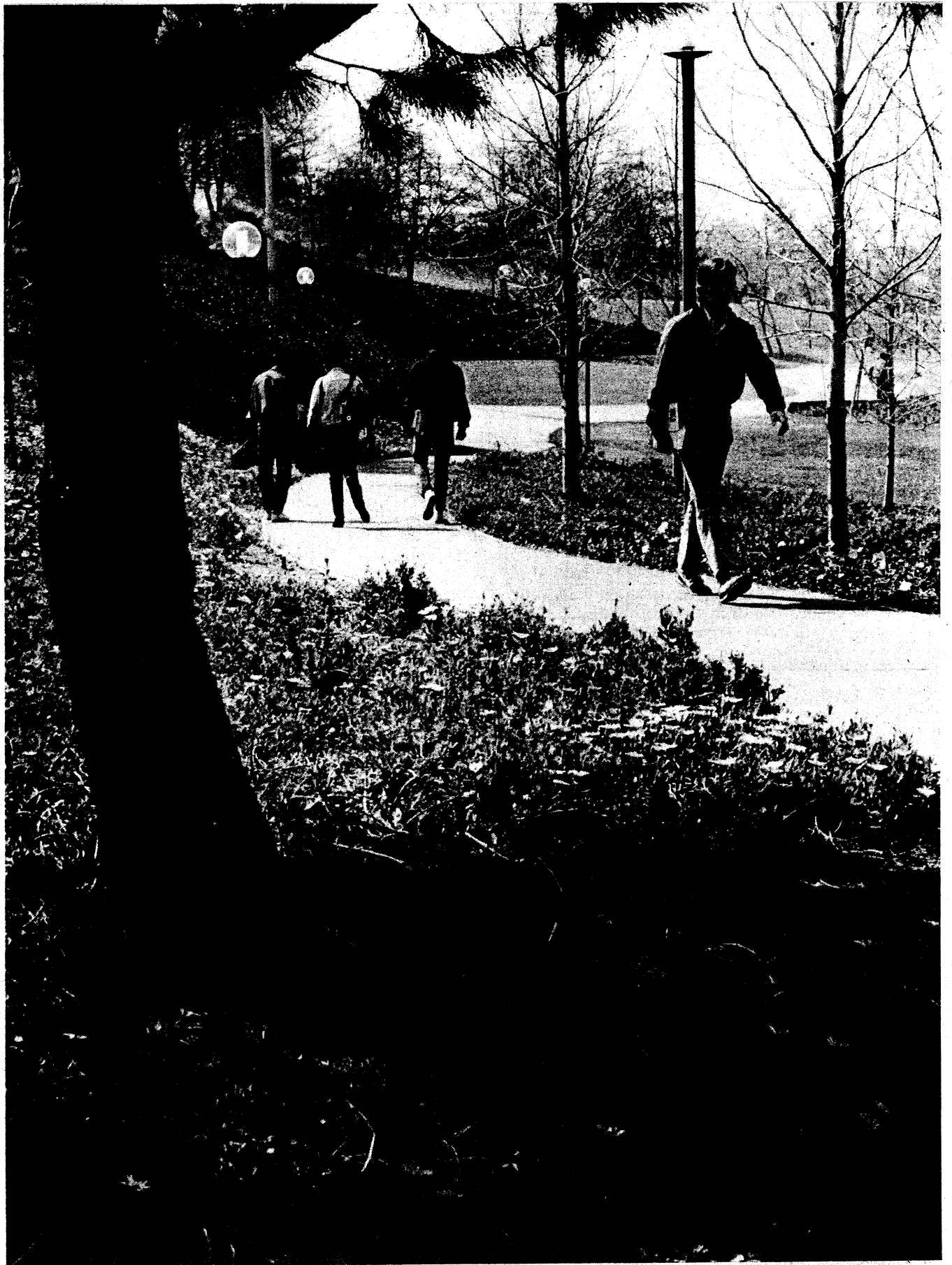
### SPEECH — ASSOCIATE IN ARTS DEGREE

The Associate Degree program in speech enables a student to transfer into a Baccalaureate program at a four-year institution.

### Associate Degree

| REQUIRED COURSES                                    |                              | UNITS        |
|---|------------------------------|--------------|
| SPEECH 1  | Public Speaking I            | 3            |
| SPEECH 5  | Interpersonal Communications | 3            |
| SPEECH 11   | Argumentation I              | 3            |
| SPEECH 16   | Group Discussion             | 3            |
| <b>And a minimum of 9 units from the following:</b> |                              | <b>UNITS</b> |
| SPEECH 2  | Public Speaking II           | 3            |
| SPEECH 3  | Voice & Articulation         | 3            |
| SPEECH 12   | Argumentation II             | 3            |
| SPEECH 15   | Storytelling                 | 3            |
| THEATRE ARTS 200                                    | Introduction to Acting       | 3            |
|   |                              | <hr/> 21     |





# TRANSFER REQUIREMENTS

Students who plan to earn a Bachelor's Degree should take a pattern of courses designed to complete the lower division preparation for their major and the general education pattern of the college to which they will transfer.

West Los Angeles College can provide the lower division preparation for most majors at most universities.

For purposes of classification, students who are paralleling the work of senior colleges and universities are indicated as "transfer students."

Two principal kinds of requirements must be met in order to attain full junior standing at the University of California or other institutions maintaining equivalent standards to which students expect to transfer.

These are the following:

1. Completion of the specific requirements for junior standing in the proposed senior college or university.
2. Completion of the lower division prerequisites for upper division majors and minors. These vary according to the institution of higher education in which students expect to enroll.

NOTE: Students expecting to transfer to such institutions should see a West Los Angeles College counselor and consult the catalog of these institutions regarding specific requirements for upper division standing.

Transfer requirements for UCLA, California State Universities and Colleges, and independent California colleges and universities that can be pursued at West Los Angeles College follow.

## TRANSFER REQUIREMENTS UCLA COLLEGE OF LETTERS AND SCIENCES

To transfer, students must complete a minimum of 56 and up to a maximum of 70 university level units with a 2.4 average unless eligibility was previously established in high school. Students must also complete an exact pattern of subjects (A to F requirements) in high school or make up deficiencies in the pattern at the community college. Students must have a high school transcript on file and see a counselor by appointment to determine eligibility. Note that the University will credit no more than 70 semester units from community colleges toward a Bachelor's Degree. All students with 60 or more transferable units must declare a major when they apply to UCLA.

Students must complete general university requirements, general education-breadth requirements and major departmental requirements in accordance with the following.

### TOP PROGRAM (Transfer Option)

Consult the college schedule of classes regarding TOP (Transfer Option Program), a pilot project with UCLA which will enhance transfer possibilities for qualified students.

### General University Requirements

1. SUBJECT A AND ENGLISH COMPOSITION. The requirement is met by completing English 101 with a grade of C or better.

2. AMERICAN INSTITUTIONS. This requirement is met by either of the following:

- a. One year of United States History and/or Government in high school with a grade of B or better, or
- b. One course from Economics 10; English 207, 208, 219; History 11, 12, 13, 14, 15, 41, 42 or Political Science 1. (These courses may also apply to the appropriate breadth requirement.)

## General Education — Breadth Requirements

Effective Fall 1978, students with fewer than 24 semester units completed at UCLA or at other institutions must meet the following breadth requirements. Those who have completed 24 or more semester units may choose to meet either these new requirements or the old requirements as stated in the 1978-79 Catalog.

Students will satisfactorily complete 24 semester units distributed among the three divisions outside the division of the student's major field, with at least two courses (six units minimum) in each division.

Acceptability of courses for these requirements should be checked with a counselor.

Breadth requirements are determined by the student's prospective UCLA major.

### Prospective Major at UCLA

### Breadth Requirements from These Three Divisions

#### Physical Sciences Division:

Astronomy, biochemistry, general chemistry, cybernetics, engineering geology, general physics, geology, geophysics and space physics, mathematics, mathematics-applied science, mathematics-computer science, mathematics-system science, meteorology, physics.

Humanities  
Life Sciences  
Social Sciences

#### Life Sciences Division:

Anthropology, bacteriology, biology, kinesiology, psychobiology, psychology, quantitative psychology.

Humanities  
Physical Sciences  
Social Sciences

#### Humanities Division:

Ancient near-Eastern civilizations, classics, English, ethnic arts, foreign language, Indo-European studies, Jewish studies, linguistics, near-Eastern studies, study of religion, philosophy.

Life Sciences  
Physical Sciences  
Social Sciences

**Social Sciences Division:**

Anthropology, Black studies, business-economics for business teachers, Chicano studies, communication studies, East Asian studies, economics, geography-ecosystems, history, Latin American studies, political science, sociology, urban studies or organizational studies.

Humanities  
Life Sciences  
Physical Sciences

**Courses Meeting Breadth Requirements**

The following are acceptable courses in each division for fulfilling Breadth Requirements in the College of Letters and Sciences at UCLA. Take as many of them as possible before transfer, but *do not* neglect the courses required for the major. (Many other courses transfer to UCLA but do not fulfill Breadth Requirements.)

**Humanities**

Art 101, 102, 103  
English: All transferable courses except 101  
Foreign Language: All transferable courses except French 101, 185, Spanish 14, 24, 101  
Humanities: All transferable courses except 89  
Linguistics 1  
Music 111, 112, 141  
Philosophy: All transferable courses except 23, 185  
Speech 1,2  
Theater 110, 130; one course from 505, 507, 509

**Life Sciences**

Anatomy 1  
Anthropology 101  
Biology: All transferable courses except 85  
Microbiology 1, 20 (maximum credit 1 course)  
Oceanography 2, 12  
Physiology 1  
Psychology 2

**Physical Sciences**

Astronomy 1  
Chemistry: All transferable courses (Maximum one course from 3, 4, 10 or 11. No credit for 3, 4, 10 or 11 following 1)  
Geography 1, 3  
Geology: All transferable courses except 6 unless taken with 1; 7 unless taken with 2  
Mathematics: All transferable courses except 155, 165, 170, 175, 215  
Oceanography 1  
Physics: All transferable courses except 14 unless taken with 12 (No credit for 12 following 6)

**Social Sciences**

Anthropology: All transferable courses except 101, 85  
Economics: All transferable courses except 4  
Environmental Studies 1, 2, 4  
Geography: All transferable courses except 1, 3, 4  
History: All transferable courses  
Philosophy 23  
Political Science: All transferable courses except 81, 82, 83, 85, 91-94  
Psychology: All transferable courses except 2, 45, 81, 82, 83 (Maximum one course from 3 and 4)  
Sociology: All transferable courses except 91, 92  
Speech 5, 11, 12, 32



## Major Departmental Requirements

In addition to the preceding general requirements, students should complete the lower division courses required by each department or curriculum. Consult the University of California at Los Angeles catalog for complete information on the lower division requirements for the desired major. The Counseling Office assists in determining the appropriate courses at West Los Angeles College which meet the major department requirements.

Completing the above program with a total of 60 units and meeting WLAC graduation requirements as described in this catalog entitles students to the Associate Degree at West Los Angeles College.

## TRANSFER REQUIREMENTS UCLA COLLEGE OF FINE ARTS

The College of Fine Arts admits students only once a year in the fall. All students are admitted on a quota basis. Information on preference for admission may be obtained from the West Los Angeles College Counseling Office. Applications for admission must be on file with the UCLA Admissions Office by November 30 of the previous year.

Only majors approved by the UCLA College of Fine Arts are to be listed on the applications. The approved majors are:

- Art
- History
- Design
- Motion Picture/Television
- Ethnic Arts
- \*Painting, Sculpture, Graphic Arts
- \*Dance
- \*Theater

\*Music (Specializations in music: composition and theory, ethnomusicology, history and literature, performance, music education, opera and systematic musicology.) \*Audition/portfolio required. Detailed information regarding the audition or portfolio is mailed to the applicant after the application is received. All applications are screened by the major department.

To transfer, students must complete a minimum of 56 and up to a maximum of 70 university level units with a 2.4 grade-point average unless eligibility was previously established in high school. Students must also complete an exact pattern of subjects (A to F requirements) in high school or make up deficiencies in the pattern at the community college.

**Students must have a high school transcript on file and see a counselor by appointment to determine eligibility.**

Students must meet general college requirements, general university requirements and major departmental requirements.

## General College Requirements for Fine Arts, UCLA

A total of 40 units make up the general college requirements as follows:

### UNITS SUBJECTS

- 3 **English 101** — with a grade of C or better (not acceptable on credit/no credit basis). This requirement must be completed before entry into Fine Arts.

- 3 **English 102** — with a grade of C or better (not acceptable on credit/no credit basis). This requirement must be completed before entry into Fine Arts.
- 10 **Foreign Language** — Two semesters of college credit in one language. This requirement must be completed by the end of the sophomore year. No high school credit or proficiency exams may be counted. If course 4 only is completed, additional units must be taken in other areas.  
**Foreign Language**  
 French 1, 2, 3, 4  
 Spanish 1, 2, 3, 4
- 6 **Science/Math** — 1 course in physical or biological science.  
 1 course in another natural science or mathematics or another physical or biological science course (no laboratory science required).  
**Physical or Biological Science**  
 Anatomy 1  
 Astronomy 1  
 Biology — all courses  
 Chemistry — all courses  
 Geography 3  
 Geology 1, 2  
 Microbiology 20  
 Oceanography 1, 2, 12  
 Physics - all courses  
 Physiology 1  
**Other Natural Science or Mathematics**  
 Anthropology 101  
 Environmental Studies 1, 2  
 Geography 1  
 Math 270, 275, 230, 235, 236, 215, 260, 261, 262, 263  
 Psychology 2
- 9 **Social Science** — 1 course in history prior to the 17th century.  
 1 course in history 17th century and after.  
 1 course in social science (may be another history course).  
**History Prior to 17th century**  
 History 1, 3  
**History after 17th century**  
 History 2, 4, 11, 12, 13, 14, 16 19, 20, 21, 27, 29, 41, 42  
**Social Science Elective**  
 Anthropology 103, 102, 121, 124, 133, 132, 150  
 Economics 1, 2, 10  
 Geography 2, 7, 14  
 History 15  
 Political Science 1, 2, 7, 8, 9, 30  
 Psychology 1, 3, 4, 6, 8, 13, 14  
 Sociology 1, 2, 4, 9
- 9 **Humanities** — (Performance or studio courses do not meet this requirement.)  
 1 course in the arts (history, theory, criticism, appreciation)  
 1 course in literature.  
 1 course in philosophy and/or religion.

Courses in the student's major department may not apply on the humanities requirement.

#### The Arts

Art 101, 102, 103  
Music 111, 112, 141  
Theater 110, 122

#### Literature

English 203 thru 219 (215 may not apply for Theater majors)

English 234, 239, 250, 251, 252, 270

Humanities 1, 2, 5

#### Philosophy/Religion

Philosophy — all courses

NOTE: When "all courses" are listed, this does not include independent study. A "C" average is required for the Fine Arts requirements.

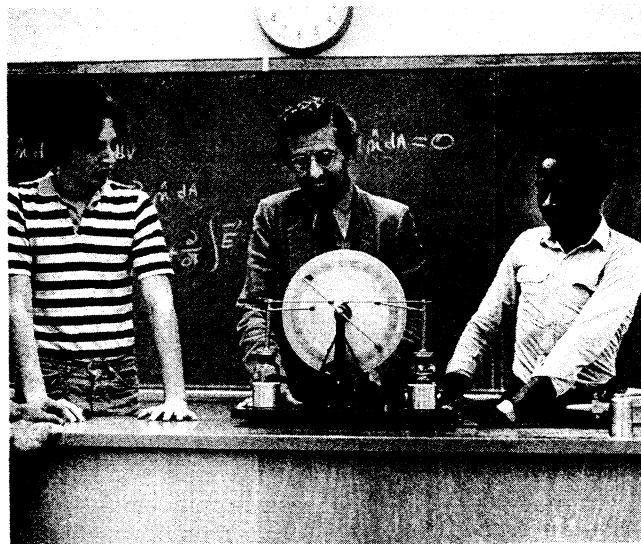
### General University Requirements

1. ENGLISH — with a grade of C or better (not acceptable on credit/no credit basis). This requirement must be completed before entry into Fine Arts.
2. AMERICAN HISTORY AND INSTITUTIONS — any course used to meet this requirement may not also apply on the Fine Arts requirements. This requirement must be met in one of the following ways:
  - A. Completion of two semesters in **high school** of American History or American Government or a combination, with a B average.
  - B. Completion of one course chosen from the following with a grade of C or better: (Credit/No Credit is acceptable.)
    - Economics 10
    - English 207, 208
    - History 11, 12, 13, 14, 15, 16, 20, 41, 42
    - Political Science 1

For additional information on the College of Fine Arts students may call 825-9705.

### Major Departmental Requirements

In addition to the preceding general requirements, students should complete the lower division courses required by each department or curriculum. Consult the University of California at Los Angeles catalog for complete information on the lower



division requirements for the desired major. The Counseling Office will assist in determining the appropriate courses at West Los Angeles College which meet the major department requirements.

Completion of the above program with a total of 60 units and meeting graduation requirements as described in this catalog entitle students to the Associate Degree at West Los Angeles College.

## CALIFORNIA STATE UNIVERSITY

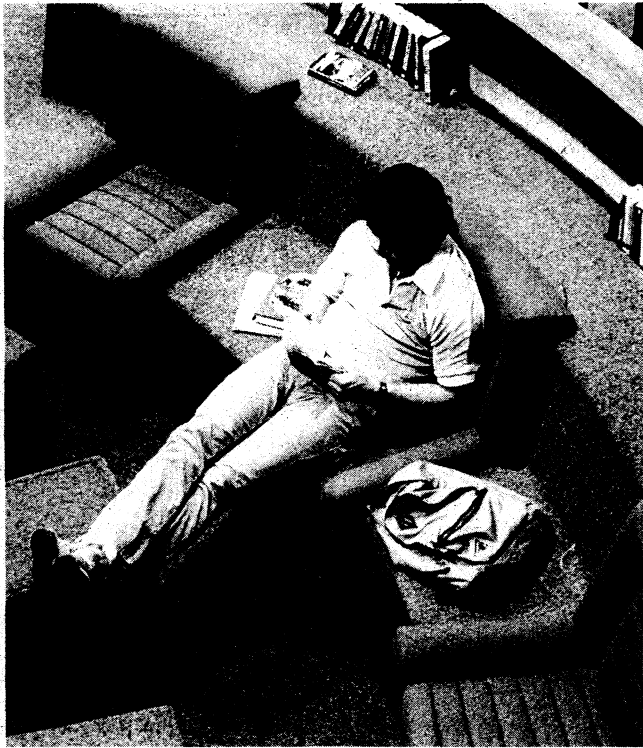
### Certification of General Education Requirements

Under agreement with the California State University system, West Los Angeles College can certify up to 39 units toward the general education requirements for the Baccalaureate degree at any one of the campuses of the State University system. Under this certification process the receiving college will accept the units certified toward completion of the general education requirements as the institution prescribes them. The college to which the student transfers would agree not to reduce this number nor to question the units certified. It is important for the student to follow the required patterns as listed below and to take courses in as many different areas as possible. Students planning to transfer should consult with the counselor concerning these general education requirements as soon as they have determined the college they wish to attend because the requirements are periodically revised.

### CSU General Education Requirements

(No course may be used more than once.)

- A. Communication in the English language — 9 units (3 units in each area)
  - A1. **Oral Communication**  
Speech 1, 16, 32
  - A2. **Written Communication**  
English 101
  - A3. **Critical Thinking**  
English 102; Philosophy 8, 9; Speech 11; Linguistics 1
- B. Physical Universe and Its Life Forms — 9 units (at least one course from each area; laboratory must be included in either B1 or B2)
  - B1. **Physical Universe**  
Astronomy 1; Chemistry 3\*, 4, 10\*; Environmental Science 1; Geography 1, 3; Geology 1, 6\*; Meteorology 3 (same as Geography 3); Oceanography 1; Physics 5, 12, 14\*, 29
  - B2. **Life Forms**  
Anthropology 101; Biology 3\*, 4, 5\*; Botany 5\*; Environmental Science 2; Oceanography 2, 11\*, 12; Psychology 2
  - B3. **Mathematical Concepts**  
Mathematics 240, 225, 235, 236, 215, 260, 261  
(\*indicates laboratory course)



**C. Humanities — 9 units (at least 3 areas; no more than one course from any area)**

**C1. History and Appreciation of the Arts**

Art 101, 102, 103, 111; Music 111, 112, 121, 122, 141; Theater 100, 110, 505, 507, 509

**C2. Literature**

English 203, 204, 205, 206, 207, 208, 211, 212, 213, 214, 215, 218, 234, 240

**C3. Philosophy**

Philosophy 1, 2, 3, 4, 20, 23, 24

**C4. Foreign Language**

French 1, 2, 3, 4; Hebrew 1, 2; Spanish 1, 2, 3, 4

**C5. Creative Participation**

Art 201, 501; Journalism 1; Music 501, 561, 725, 731, 775; Physical Education 431, 434, 437, 801, 805, 814; Theater 200, 270

**C6. Western Culture**

History 22, 23; Humanities 30, 31

**C7. Non-Western Culture**

Anthropology 132, 133

**D. Social, Political and Economic Institutions — 9 units (only one course from any area). Note: Courses to satisfy American Institutions requirements cannot also be used to satisfy general education requirements.**

**D1. Social Institutions**

Anthropology 102, 121, 124; Geography 2, 7; Law 1; Psychology 1, 6, 13; Sociology 1

**D2. Political Institutions**

History 11, 12; Political Science 1, 2, 4

**D3. Economic Institutions**

Business 1; Economics 1, 2, 10

**D4. Contemporary Settings**

History 2, 4, 13, 42; Journalism 5; Political Science 7; Sociology 2, 5, 7, 11, 22

**D5. Historical Settings**

Anthropology 103; History 1, 3, 20, 41

**E. Life Understanding and Self-Development — 3 units (no more than one unit of Physical Education may be used)**

**E1. Integrated Organism**

Family and Consumer Studies 21; Health 9, 10; Psychology 3, 8, 15, 16, 52; Sociology 8, 12

**E2. Activity**

Physical Education 102, 200, 212, 222, 229, 230, 253, 259, 262, 265, 268, 271, 289, 301, 310, 322, 325, 431, 434, 437, 446

**NOTE:** The CSU system accepts the following courses in fulfillment of its American Institutions graduation requirement: History 11, 12, 41, 42; Political Science 1.

## Liberal Studies

Liberal Studies programs in the California State University are designed for students who desire a broad education in the Liberal Arts, often with a goal of teacher preparation, particularly on the elementary level. Students with the teaching credential objective must complete professional education requirements leading to the multiple subject credential and do so either simultaneously with, or subsequent to, completion of the Liberal Studies degree. Requirements for the B.A. Programs for prospective teachers require a minimum of 84 semester (126 quarter) units with approximately equal distribution among the following four areas:

1) English, 2) Mathematics and the Physical and Life Sciences, 3) Social Sciences and 4) Humanities and the Fine Arts.

Students in the Liberal Studies major who have career objectives other than teaching will generally find: 1) greater freedom in the use of electives, 2) opportunities for course substitution within major requirements and 3) possibilities of accomplishing additional objectives, such as completion of a second major or of professional requirements.

All CSUC Liberal Studies programs consist of both lower- and upper-division course work. The distribution between these two levels is not the same in any two campus programs. In some programs upper-division course work is not based on any particular lower-division preparation. In others, certain upper-division courses may require specific lower-division prerequisites. General Education requirements are accommodated in Liberal Studies programs in different ways. However, in all cases it is possible for a student to complete general education and major requirements in such a manner as to eliminate or minimize the loss of transfer units.

Students, prior to transfer, should distribute their course work among all four subject areas listed below:

1. English students should complete course work distributed over the areas of composition, literature and speech, totaling nine to twelve semester units.
2. Mathematics and the physical- and life sciences students should complete at least three semester units in mathematics beyond both elementary algebra and plane geometry. Two basic courses in the sciences, one in physical sciences and one in life sciences, should be completed. At least one should be a laboratory course with seven to nine semester units.

3. Nine semester units in social sciences should be completed. Recommended are one course each in U.S. history, political science and psychology, as well as courses in anthropology, economics, geography and sociology.
4. Humanities and the fine arts (including foreign languages) students should complete six to eight semester units divided between art and music. Additionally, one or two courses may be chosen from dance, drama, foreign language, humanities (general), non-European cultures, philosophy and religious studies.

**NOTE:** Always review requirements of institution to which you wish to transfer. See a counselor for accurate planning and current information.

Other programs are performing arts, dance, economics, environmental studies, foreign language, law, philosophy, physical education, physics, political science, psychology, chemistry, education, geology, humanities, journalism, sociology and speech.

## INDEPENDENT CALIFORNIA COLLEGES AND UNIVERSITIES

California's fully accredited independent colleges and universities provide a host of options at undergraduate, graduate and professional levels for students planning to continue their education beyond community college.

## Admission Policies

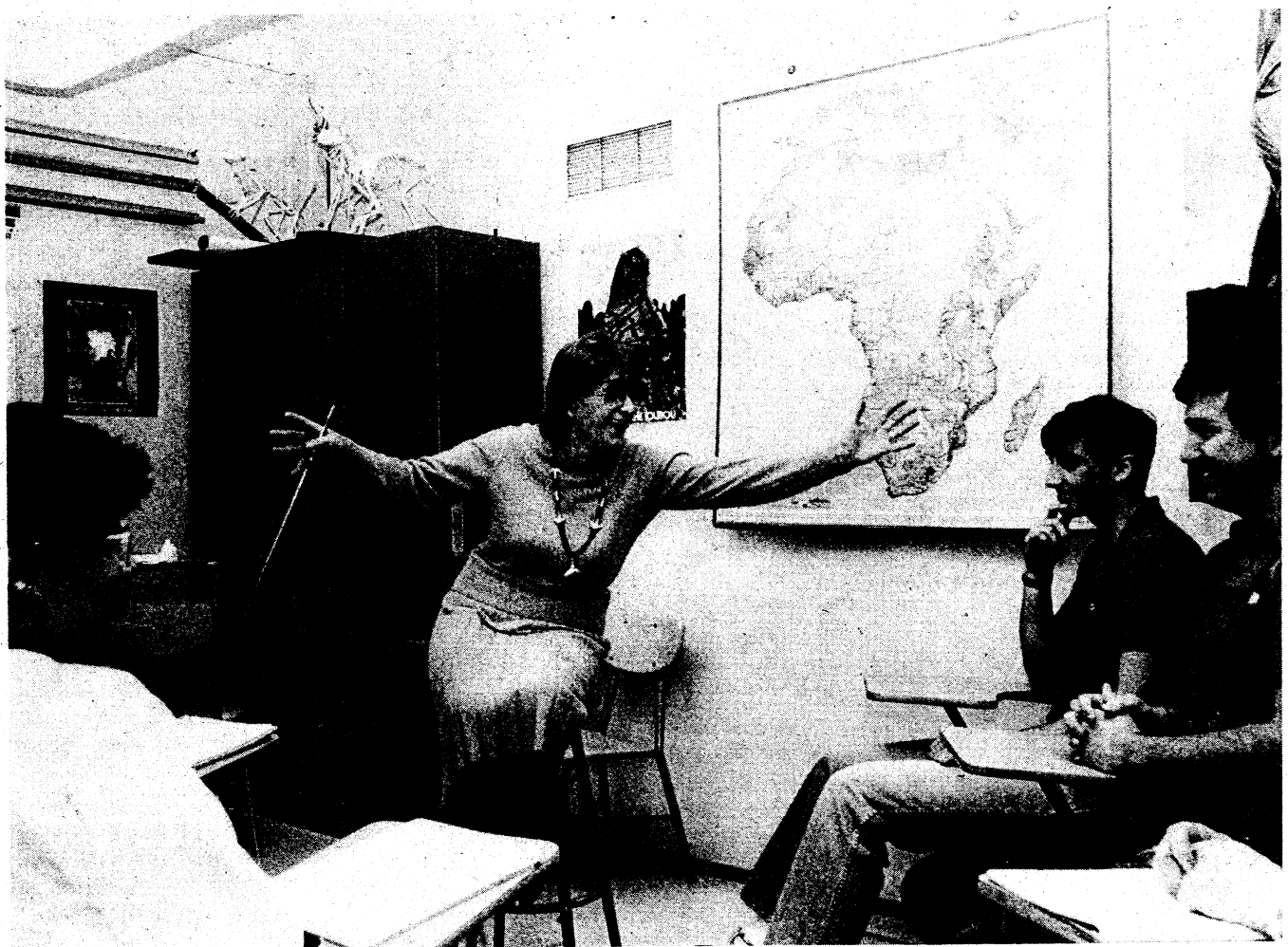
Students who transfer to independent colleges or universities find they are given academic credit for most, if not all, of their community college studies. Virtually all institutions give full credit for general education courses and usually other courses designated for transfer by the community college.

Some colleges and universities stipulate a certain number of completed units before considering students eligible for transfer. Others do not and will accept students at any time. The requirements are outlined in the respective college catalogs, available upon request from the college's Office of Admissions.

Independent institutions are generous in awarding credit. They invite students to make an appointment with their Office of Admissions in order to discuss transfer opportunities on a personal basis.

## Financial Aid

The application is simple. Students are to complete the Student Aid Application for California (SAAC) and request a copy to be sent to the college of their choice. Forms are available in the Office of Financial Aids at West Los Angeles College. For further information, students should contact the Office of Financial Aids at the college of their choice.





# COURSE DESCRIPTIONS

The courses offered are listed alphabetically with brief course descriptions. The credit value of each course in semester units is indicated by the number in parentheses following the course title. Each unit represents one hour a week for lecture or recitation, or two or more hours per week of laboratory. Some courses may be repeated for credit. For example, **RPT 3** indicates that the course may be repeated three times for credit. Prerequisites are stated if the course requires them. If the number of hours in which a class meets differs from the number of units, the course description states the actual number of lecture and/or laboratory hours.

All West Los Angeles College courses are college level courses, and most may be applied toward graduation requirements for the Associate Degree. Transfer courses are acceptable for credit at the University of California and at the California State University according to the following codes:

## University of California

**UC** — Courses so designated are acceptable for credit at all branches of the University of California.

## California State University

At the CSU, courses are transferred according to the designation:

### CSU — Baccalaureate

Courses designated CSU are certified as being appropriate for baccalaureate degree credit for determining admission eligibility as an undergraduate transfer.

If nothing appears after the course title, then the course is not transferable. For specific course equivalents, see a counselor.

### Course Repeatability for Credit

The symbol *RPT* identifies courses which may be taken more than once for credit. The number which follows *RPT* symbol indicates the number of times the course may be repeated for credit.

## ACCOUNTING

(See *Business* also)

### 1 Introductory Accounting I (5) UC:CSU

*Prerequisite: Business 38, one year high school algebra or Math 115 and consent of instructor. Business Administration majors are advised to take Accounting 1 in their third semester.*

This course emphasizes basic accounting theory and practices which include an analysis of records of original entry and their relationship to the general ledger, controlling accounts and their subsidiary ledgers, voucher system, periodic adjustments, worksheet, financial statements and closing the ledger. Students complete a simulated set of books of records for a sole proprietorship form of mercantile firm using business papers.

*Acceptable for Management 1A credit, UCLA Note: Same as Accounting 21 with Accounting 22.*

### 2 Introductory Accounting II (5) UC:CSU

*Prerequisite: Accounting 1 or Accounting 22 with a grade of C or better or equivalent or consent of instructor.*

Accounting principles and procedures relating to partnerships and corporations, accounting for manufacturing, cost accounting, branch and departmental accounting, interpretation of financial statements, supplementary statements, data processing and management controls are covered. Students complete a manufacturing firm practice set.

*Acceptable for Management 1B credit, UCLA*

### 3 Intermediate Accounting (3) CSU

*Prerequisite: Accounting 2 with a grade of C or better or equivalent and consent of instructor.*

Lecture 3 hours.

This course covers the theory and practice of recording valuation and presentation of current fixed and intangible assets; current and long-term obligations; paid-in capital and retained earnings; financial statement analysis; cash flow reporting and changes in a financial position statement.

### 15 Tax Accounting 1 (3) CSU

*Prerequisite: Accounting 1 or equivalent and permission of instructor.*

*Credit allowed for only one of Accounting 15 or Business 10.*

Tax laws, accounting procedures, and preparation of returns required for federal and California State individual income taxes are covered.

### 16 Tax Accounting II (3) CSU

*Prerequisite: Successful completion of Accounting 15 or consent of instructor.*

This course deals with tax laws accounting procedures and preparation of state and federal tax returns required for partnerships, corporations, estates and trusts. Federal and state returns for inheritance and gift taxes will also be considered along with review of individual tax returns to update the student on new tax laws and forms.

### 17 Payroll Accounting (2)

*Prerequisite: Concurrent enrollment in Business 38 or consent of instructor.*

This course presents methods and procedures of compiling payroll records and preparation of payroll tax returns required by state and federal laws; including state and federal unemployment and social security, insurance and workmen's compensation reports.

### 20 Managerial Accounting (3) CSU

The application of accounting analysis to business decision, planning, and control is presented. The emphasis is on the usefulness and appropriateness of data.

### 21 Bookkeeping and Accounting I (3) UC:CSU

*Prerequisite: Business 38, which may be taken concurrently.*

Fundamentals of double entry bookkeeping; preparation of the trial balance; work sheets and simple financial statements; use of controlling accounts; the control of cash and bank reconciliation statements are presented. Students complete a mercantile firm practice set. *Credit allowed only for either Accounting 1 or 21. Accounting 21 and 22 together equal Accounting I and are acceptable for Management 1A credit, UCLA.*

### 22 Bookkeeping and Accounting II (3) UC:CSU

*Prerequisite: Accounting 21 or equivalent and permission of instructor.*

The voucher system; payroll accounting; accounting of notes, bad debts, inventories, cost of goods sold, fixed assets, depreciation, adjustments and interim statements are dealt with. Students complete a mercantile firm practice set. *Together with Accounting 21, equals Accounting 1.*

### 23 Record Keeping for Small Business (3)

Designed for prospective owners and bookkeepers of small businesses, this course explains the organization and interpretation of records and record keeping. Systems used in small service, merchandising, and manufacturing businesses.

### 25 Automated Accounting (3)

*Prerequisite: Completion of one semester of Accounting Principles (or equivalent), through and including material on payroll accounting with a grade of C or better.*

An introduction to Accounting using the microcomputer, the course will provide information and practice in the basic machine operations, plus instruction in the following areas: general ledger, depreciation, accounts receivable, accounts payable, and payroll. Real-world applications will be stressed throughout the course.

**37 Accounting Machine Practice (1-1)**

*Prerequisite: Basic arithmetic skills, Business 38 or high school math.*

Laboratory 2 hours.

This laboratory course offers instruction in touch-key operation of ten-key and electronic printing and display calculators. Students are taught to use timesaving features on standard electronic calculators, including memory keys, constant and accumulative modes and decimal controls.

**Cooperative Work Experience Education**

Accounting is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**ADMINISTRATION OF JUSTICE****1 Introduction to Administration of Justice (3) UC:CSU**

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 for entry into a career in Administration of Justice are presented.

**2 Concepts of Criminal Law (3) UC:CSU**

Structure, definitions, and the most frequently used sections of the Penal Code and other criminal statutes pertaining to law enforcement are covered.

**3 Legal Aspects of Evidence (3) CSU**

A careful study of the kinds and degrees of evidence and the rules governing the admissibility of evidence in court is made.

**4 Principles and Procedures of the Justice System (3) UC:CSU**

Procedures from incident to final disposition including the police, prosecution court and correctional process, principles of constitutional, federal, state and civil laws are considered as they apply to and affect law enforcement. Theories of crime and punishment are included.

**5 Criminal Investigation (3) CSU**

This course covers the 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.

**6 Patrol Procedures (3) CSU**

*Prerequisite: Administration of Justice 1 or employment in law enforcement.*

This course is a study of the responsibility, techniques and methods of police patrol. Topics include patrol distribution, selective enforcement, pull-over and approach methods, emergency pursuit driving, search of suspects and buildings, field interrogations, procedures in the handling of calls for police service and special police problems.

**7 Traffic Control (3) CSU**

This course covers traffic law enforcement regulation and control, fundamentals of traffic accident investigation, and the California Vehicle Code.

**8 Juvenile Procedures (3) CSU**

*Prerequisite: Administration of Justice 1 or equivalent.*

This course is a study of the organization, functions and jurisdiction of juvenile agencies; the processing and detention of juveniles; juvenile case disposition; juvenile statutes and court procedures.

**14 Report Writing for Peace Officers (3) CSU**

Lecture 3 hours.

This course includes the study of and practice in preparing various types of reports required by the criminal justice system, review of basic writing skills, technical and legal terminology, and the requirements for preparation of legally admissible documents.

**15 Police Supervision (3) CSU**

*Prerequisite: Employment in law enforcement or consent of instructor or Department Chair.*

This course is specifically designed to prepare law enforcement officers for the duties and responsibilities of the police supervisor. It is primarily concerned with supervisory functions, techniques and the underlying principles governing their applications.

**16 Recruitment Selection Process (3) CSU**

Lecture 2 hours; discussion 1 hour.

This course provides an in-depth coverage of the legal selection process designed to assist students with employment in a law enforcement agency. Written exam techniques, oral exam techniques and the agility exam are covered. The background investigation, psych test and medical exam are explained. Practical ways to assist the candidate through the Academy are also included.

**39 Probation and Parole (3) CSU**

Community treatment in the correctional process; contemporary usage of presentence investigation and selection, supervision and release of probationers and parolees are examined.

**42 Advanced Criminal Law (3) CSU**

*Prerequisite: Administration of Justice 2 or consent of instructor.*

This course is the study of criminal law with special emphasis on major crimes of particular interest to peace officers and examines penal provisions in State codes and leading case law.

**60 Arrest, Search and Seizure (3) CSU**

This course covers the history and development of the laws and custom of arrest, search and seizure and the "Exclusionary Rules." Consideration is given to landmark decisions and current case law which directs the applications of procedures and techniques as they relate to law enforcement officers and others in the apprehension of criminals and the procuring of evidence.

**62 Fingerprint Classification (3) CSU**

A practical course which covers the technical terminology of fingerprinting, pattern interpretation, classification of fingerprinting, searching and filing procedures. Time will also be devoted to laboratory work in the classroom. A certificate will be awarded on completion.

**67 Community Relations I (3) UC:CSU**

An in-depth exploration of the roles of the Administration of Justice practitioners and their agencies is offered. Through interaction and study the student becomes aware of the inter-relationships and role expectations among the various agencies and the public. Principal emphasis is placed upon the professional image of the system of Justice Administration and the development of positive relationships between members of the system and the public.

**72 Correctional Procedures (3) CSU**

Current correctional procedures are studied in relation to jail management, receiving prisoners, custody and security, supervision of prisoners, staff services, prisoners' activities, custodial facilities, duties in coordinating inmate appearances in courts, and human relations in correctional facilities.

**75 Introduction to Corrections (3) CSU**

This basic course deals with the nature of correctional work; aims and objectives of correctional administration; probation and practices; skills, knowledge and attitudes required for employment in this field; types of institutions and services and career opportunities.

**86 Issues in Law Enforcement (3)**

Lecture 3 hours.

This course surveys literature and media presenting the issues, problems and perceived image of law enforcement.

**Cooperative Work Experience Education**

Administration of Justice is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**185 Directed Study - Administration of Justice (1) UC:CSU****285 Directed Study - Administration of Justice (2) UC:CSU****385 Directed Study - Administration of Justice (3) UC:CSU**

*Prerequisite: Consent of instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in Administration of Justice on a contract basis under the direction of a supervising instructor. *Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

## AEROSPACE PRODUCTION TECHNOLOGY

(Requirements for the certificate of completion are met by completing courses 1 through 9, listed below.)

### 1 Applied Mathematics for Aerospace Production Skills (2)

Lecture 2 hours.

This course presents the mathematics needed for aerospace production, and general shop mathematics.

### 2 Blueprint Reading for Industry (1)

Laboratory 3 hours.

Blueprint reading is offered as related to industry and aerospace sub-assembly work.

### 3 Aerospace Basic Tools and Procedures (1)

Lecture 1 hour.

The use, care and maintenance of basic tools are offered in this course.

### 4 Aerospace Structural Units and Materials (1)

Lecture 1 hour.

Instruction is offered in the properties of materials used in aerospace production. Emphasis is placed on structural units.

### 5 Aerospace Production Measuring Tools (2)

Lecture 2 hours.

The care, use, adjustment and maintenance of production assembly tools and measuring tools are offered in this course.

### 6 Aerospace Production Methods (1)

Laboratory 3 hours.

The practical applications of production skills are practiced in this course, utilizing the materials of aerospace construction.

### 7 Aerospace Riveting and Sub-Assembly (2)

Laboratory 6 hours.

Instruction is offered in aerospace sub-assembly and riveting procedures. Emphasis is placed on the development of production riveting skills.

### 8 Nomenclature and Coding of Aerospace Fasteners and Hardware (2)

Lecture 2 hours.

The course offers basic information in the coding and nomenclature of aerospace fasteners and hardware.

### 9 Aerospace Fasteners and Hardware Assembly (1)

Laboratory 3 hours.

This course offers instruction in the installation of a variety of fasteners and hardware used in aerospace production.

## AIRCRAFT ELECTRONICS TECHNOLOGY

### 1 Scientific Calculator Electronics Mathematics (4) CSU

Lecture 3 hours; laboratory 3 hours.

A review of arithmetic, graphs, algebra and trigonometry as performed on the scientific calculator and their application to aircraft electronics circuits is presented.

*NOTE: This course is similar to Electronics 10 and 12 and is part of Core I of the Electronics curriculum.*

### 2 Aircraft Direct Current Theory and Laboratory (4) CSU

*Prerequisite: Aircraft Electronics Technology 1 or equivalent.*

Lecture 3 hours; laboratory 3 hours.

A study is made of series, parallel, semi-parallel and complex circuits involving more than one source of EMF voltage dividers, and the construction of basic meters is stressed. In the laboratory, practice is provided in the application of the basic laws of electricity to aircraft DC equipment.

*NOTE: This course is similar to Electronics 4 and is part of Core I of the Electronics curriculum.*

### 3 Aircraft Alternating Current Theory and Laboratory (4)

*Prerequisites: Aircraft Electronics Technology 2 or equivalent.*

Lecture 3 hours; laboratory 3 hours.

A study of inductance, transformers, filters, reactance, resonant circuits, power factors and impedance matching, with motor and generator applications, graphical and vector representations is made. In the laboratory instruction is offered in the construction and testing of aircraft electronics equipment using oscilloscopes, frequency meters, probe measurements, bridges and "Q" meters.

*NOTE: This course is similar to Electronics 6 and is part of Core I of the Electronics curriculum.*

### 4 Aircraft Semiconductor and Integrated Circuit Applications (4)

*Prerequisite: Aircraft Electronics Technology 3 or equivalent.*

Lecture 3 hours; laboratory 3 hours.

This course presents basic principles of semiconductors, crystal diodes, metallic rectifiers, transistors, Zener diodes, tunnel diodes and vacuum tubes. Instruction is offered in audio amplifier calculations, analysis of amplifier circuits using vacuum tubes and transistors. In the laboratory experience is provided in construction and testing of voltage and power amplifier and audio and RF amplifiers using vacuum tubes and transistors, including plotting characteristic curves, dynamic measurement, techniques of troubleshooting, gain and signal transfer measurements and distortion measurements.

*NOTE: This course is similar to Electronics 20 and is part of Core II of the Electronics curriculum.*

### 5 Aircraft Electronic Circuit Analysis (4) CSU

*Prerequisite: Aircraft Electronics Technology 4 or equivalent.*

Lecture 3 hours; laboratory 3 hours.

A study is offered in the special electronic circuits that include multivibrators, blocking oscillators, integrators, differentiators, clippers, clippers, sweep and counter circuits. In the laboratory practice is offered in the wave form analysis of these circuits and soldering techniques, including solderless connections, wiring bundles, harness construction and repair.

*NOTE: This course is similar to Electronics 22 and is part of Core II of the Electronics curriculum.*

### 6 Aircraft Electronic Circuit Analysis II (4) CSU

*Prerequisite: Aircraft Electronics Technology 5 or equivalent.*

Lecture 3 hours; laboratory 3 hours.

A study is offered in the special electronic circuits that include multivibrators, blocking oscillators, integrators, differentiators, clippers, clippers, sweep and counter circuits. In the laboratory practice is offered in the wave form analysis of their circuit.

*Note: This course is similar to Electronics 24 and is part of Core II of the Electronics curriculum.*

### 7 Aircraft Receiver and Transmitter Principles I (4) CSU

*Prerequisites: Aircraft Electronics Technology 6 or equivalent.*

Lecture 3 hours; laboratory 3 hours.

Instruction is offered in the theory of operation of aircraft AM, FM, and single sideband receivers and transmitters for communication and navigation equipment. In the laboratory practice is provided in testing, alignment and troubleshooting procedures for aircraft communication receivers, transmitters and navigation receivers.

### 8 Aircraft Receivers and Transmitters Principles II (4) CSU

*Prerequisites: Aircraft Electronics Technology 7 or equivalent.*

Lecture 3 hours; laboratory 3 hours.

Advanced instruction is offered in the operation and maintenance of aircraft AM, FM, and single sideband receivers and transmitters for communication and navigation equipment. In the laboratory experience is provided in testing, alignment and troubleshooting procedures for aircraft communication receivers, transmitters and navigation receivers.

### 9 Radio Communications (4) CSU

*Prerequisites: Aircraft Electronics Technology 8 or equivalent.*

Lecture 3 hours; laboratory 3 hours.

Instruction is offered in FCC regulations, radio broadcast transmitter licensing, operation and maintenance leading to FCC first class radio telephone license. In the laboratory the students will analyze, align, troubleshoot and repair AM, FM, SSB and pulse-modulated radio transmitters.

**10 Digital Computer Logic, and Auto Pilot Systems (4)**

*Note: Student must have a minimum 2.0 GPA in Aircraft Electronics Technology prior to enrollment in AET 10, 11, 12.*

*Prerequisites: Aircraft Electronics Technology 3 or equivalent.*

Lecture 3 hours; laboratory 3 hours. Instruction is offered in symbolic logic for digital and analog computers, basic concepts, operating techniques and circuit components of magnetic amplifiers, as well as closed servo loop data transmission systems. In the laboratory experience is gained in construction of digital circuits, truth tables and troubleshooting techniques; also analysis and troubleshooting servo loops.

**11 Aircraft Multiplex Systems (4) CSU**

*Note: Student must have a minimum 2.0 GPA in Aircraft Electronics Technology prior to enrollment in AET 10, 11, 12.*

*Prerequisites: Aircraft Electronics Technology 4 or equivalent.*

Lecture 3 hours; laboratory 3 hours. Instruction is offered in the theory, operation and maintenance of multiplex systems as applied to modern aircraft. In the laboratory the student analyzes, tests and performs troubleshooting repair and alignment on multiplex systems.

**12 Aircraft Entertainment and Intercom Systems (4) CSU**

*Note: Student must have a minimum 2.0 GPA in Aircraft Electronics Technology prior to enrollment in AET 10, 11, 12.*

*Prerequisites: Aircraft Electronics Technology 8 or equivalent.*

Lecture 3 hours; laboratory 3 hours. This course includes a study of the intercommunication system of pilot to crew and pilot to passengers, as well as music, video, and sky-phones systems. In the laboratory the students will analyze PA systems, AM, FM, and video units.

**51 Aircraft Electronic Multiplexing (4)**

*Prerequisites: Aircraft Electronics Technology 12 or F.C.C. 2nd or equivalent.*

Lecture 3 hours; laboratory 3 hours. This course offers instruction in the theory, operation, testing, alignment, and troubleshooting procedures for airborne communication systems.

**52 Avionic Modular Components & Systems (4)**

*Prerequisites: Aircraft Electronics Technology 12 or F.C.C. 2nd or equivalent.*

Lecture 3 hours; laboratory 3 hours. This course offers instruction in the theory, operation, testing, alignment, and troubleshooting procedures for airborne pulse systems.

**53 Current Communication/Navigation Circuit Applications (4)**

*Prerequisites: Aircraft Electronics Technology 12 or F.C.C. 2nd or equivalent.*

Lecture 3 hours; laboratory 3 hours. This course offers instruction in the theory, operation, testing, alignment, and troubleshooting procedures for airborne navigation systems.

**AMERICAN SIGN LANGUAGE****1 American Sign Language I (4) CSU**

Lecture 3 hours; laboratory 2 hours. This course develops conversational skills in the American Manual Alphabet and Sign Language.

**2 American Sign Language II (4) CSU**

*Prerequisite: American Sign Language I with a grade of C or better.*

Lecture 3 hours; laboratory 2 hours. This course is a continuation of American Sign Language I. In-depth study of the structure of American Sign Language as used by deaf adults is provided. Receptive and expressive skills and sign vocabulary are developed.

**ANATOMY****1 Introduction to Human Anatomy (4) UC:CSU**

*Prerequisite: Biology 5A/5B with grade of C or better; concurrent enrollment in or successful completion of English 28.*

Lecture 3 hours; laboratory 3 hours. This course presents the structure of the human body by subdividing it into individual body systems. The functional anatomy of each level of organization is then studied from the microscopic level of organization to the gross level. In addition, the embryological development of each body system and selected pathologies will be examined. Laboratory exercises include the study of histological slides, photomicrographs, x-rays, human skeleton and the dissection of a cat. This course is intended to meet the requirements of students majoring in nursing, dental hygiene, occupational therapy, psychology, physical education and life sciences, or for those who wish to extend their knowledge of the human body beyond the scope of introductory biology.  
*Note: Anatomy 1 and Physiology 1 taken together equal Physiology 6.*

**ANTHROPOLOGY****101 Human Biological Evolution (3) UC:CSU**

The course focuses on the relationship between human biology, culture and the physical environment, as interpreted within the framework of evolutionary theory and the sci-

ence of genetics. It traces man's place in the animal kingdom, with special emphasis on primates. Archeological evidence, associated with human fossils, is examined and human physical variability is probed within the context of Mendelian and population genetics.  
*Acceptable for Anthropology 1-2, credit UCLA.*

**102 Human Ways of Life: Cultural Anthropology (3) UC:CSU**

The course presents an anthropological understanding of the varieties of life styles in human societies throughout the world, from nomadic hunting-gathering tribes to highly technologically-developed societies such as ours. The varied forms of marriage and the family, economic, political, and legal arrangements; religious expressions; and art forms are examined in their own contexts and compared to others. Extensive use is made of audio-visual materials.

*Acceptable for Anthropology 5, credit UCLA.*

**103 Archaeology: Reconstructing the Human Past (3) UC:CSU**

The course focuses on the discovery and reconstruction of the ways of life of extinct societies through the excavation, analysis and interpretation of their material remains, including refuse, stone tools, pottery, burials, housing. By examining these remains within the context of the environment and change over time, students acquire a means of understanding the human past. Extensive use is made of audio-visual materials.

*Acceptable for Anthropology 6, credit UCLA.*

**121 Anthropology of Religion, Magic, and Witchcraft (3) UC:CSU**

This course provides a socio-cultural understanding of religious behaviors. It deals with the components, function and symbolism of religious behavior, as manifested through practices such as magic, witchcraft, totemism, divination, shamanism, ancestor worship and cults. Belief in gods, demons, ghosts, spirits, mana, the other world, and the soul are probed. Special emphasis is given to tribal religious systems through the use of information gathered by anthropologists in the field. Non-tribal religious systems are included for comparative purposes. Extensive use is made of audio-visual materials.

**124 Sex Roles in Human Societies (3) UC:CSU**

This course acquaints students with the variety of strategies and traditions different societies have developed to teach their members what is "proper" male and female behavior. The assumptions underlying this varied socialization of the two sexes are probed and the resulting social and psychological consequences examined. Extensive use is made of audio-visual materials, as gathered by anthropologists in the field.

**132 North American Indians (3) UC:CSU**

The course focuses on the traditional ways of life of Indian societies of North America. In addition, problems resulting from contact with Europeans are examined in their historical context, including the question of life on the reservations and in the cities of today.

**133 The Peoples and Cultures of Africa (3) UC:CSU**

The student is introduced to the peoples of Africa in the context of their physical environment and history. It includes cross-cultural comparisons between the various African cultures in their traditional context and in the context of colonialism and the associated post-independence problems.

**150 Current Topics in Anthropology (3) UC:CSU**

This course presents specific areas of current anthropological research and interests. Sub-headings to the course title are published in the schedule of classes to identify the specific topic taught in a given semester.

**185 Directed Study - Anthropology (1) UC:CSU****285 Directed Study - Anthropology (2) UC:CSU****385 Directed Study - Anthropology (3) UC:CSU**

Conference 1 hour per unit.

Allows student to pursue Directed Study in Anthropology on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 credits in Directed Study may be taken for credit.*

**ART**

*(Outstanding works of students' art may be retained for a maximum of two years by the College art gallery.)*

**TRANSFER CREDIT:** UC campuses have established the following transfer credit maximums: 12 units from Art 700, 706, 709, 710, 711, 712; Photography 9, 10, 21. 16 units from Art 201, 202, 203, 204, 205, 206, 208, 209, 300, 301, 302, 304, 305, 307, 308.

**101 Survey of Art History I (3) UC:CSU**

In this chronological survey of the visual arts from pre-history through the European Middle Ages, early civilizations in the Middle East, Egypt, India, China, the Mediterranean, Africa, Meso-America, Japan, and Western Europe are studied.

**102 Survey of Art History II (3) UC:CSU**

*NOTE: Art 101 is not a prerequisite to Art 102.* This course surveys the visual arts of Western Europe, pre-Columbia, America, Africa, and Japan chronologically from the Italian Renaissance to modern times.

**103 Art Appreciation I (3) UC:CSU**

This broad introduction to the nature, vocabulary, media, and history of art, with selections from western and non-western cultures, is designed to expand awareness and understanding of the visual forms that are part of the environment.

**111 History of Contemporary Art (3) UC:CSU**

*Recommended: Art 102.*

Twentieth century trends in painting, sculpture and architecture are studied.

**113 History of Costume (3) CSU**

Lecture 3 hours.

This course presents the development of costume through the ages. Reference is made to the influence of history of costume on present-day fashions and how inspiration for current fashion is affected by this study. This course is especially designed for students of fashion design and theater arts.

**201 Drawing I (3) UC:CSU**

Lecture 2 hours; studio 2 hours.

This introduction to drawing places emphasis upon fundamental rendering of three-dimensional form in space. Pencil, pen and charcoal are used. Students are expected to complete an additional 2 hours per week of studio homework.

*Acceptable for Art 10A credit, UCLA.*

**202 Drawing II (3) UC:CSU**

*Prerequisite: Art 201 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

Compositional aspects of drawing as applied to still life, natural forms, landscape and the human figure are explored. Students are expected to complete an additional 2 hours per week of studio homework.

**203 Drawing III (3) UC:CSU**

*Prerequisite: Art 202 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

This course is a continuation of Art 202. Students are expected to complete an additional 2 hours per week of studio homework.

**204 Life Drawing I (3) UC:CSU**

*Prerequisite: Art 201 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

An introductory study of human structure and proportion is provided. Fundamental drawing approaches are explored in black and white media with emphasis upon the development of observation and skill in graphic representation. Students are expected to complete an additional 2 hours per week of studio homework.

**205 Life Drawing II (3) UC:CSU**

*Prerequisite: Art 204 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

This course consists of drawing from the human figure with emphasis upon the development of observation, structure and draftsmanship. Various media are explored stressing line and tone. Students are expected to complete an additional 2 hours per week of studio homework.

**206 Life Drawing III (3) UC:CSU**

*Prerequisite: Art 205 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

This course is a continuation of Art 205. Students are expected to complete an additional 2 hours per week of studio homework.

**208 Life Drawing Studio (2) UC:CSU**

*Prerequisite: Art 503 and 205 with grades of C or better or consent of instructor.*

Studio 4 hours.

This course consists of drawing from the human figure with problems in anatomy, structure, draftsmanship and pictorial space. Various pictorial concepts motivated by the human image are explored. Students are expected to complete an additional 2 hours per week of studio homework.

**209 Perspective Drawing I (3) UC:CSU**

Lecture 2 hours; studio 2 hours.

This course helps the drawing and architecture student to better understand three-dimensional form in space. Study is made of one-, two-, and three-point perspective drawing of objects as well as architectural interiors and exteriors. Elementary drafting skills as well as freehand sketching and rendering will be explored. Students are expected to complete an additional 2 hours per week of studio homework.

**300 Introduction to Painting (3) UC:CSU**

*Prerequisite: Art 201 or 501 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

This course continues the development of draftsmanship and exposure to art concepts related to imagery, paint quality, color and composition. Various media and mixed media in drawing and painting are explored with emphasis upon specific techniques. Students are expected to complete an additional 2 hours per week of studio homework.

*Acceptable for Art 20A credit, UCLA.*

**301 Watercolor Painting I (3) UC:CSU**

*Prerequisite: Art 300 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

This course is an introduction to and an exploration of watercolor media in varied styles, techniques and pictorial methods. Students are expected to complete an additional 2 hours per week of studio homework.

**302 Watercolor Painting II (3) UC:CSU**

*Prerequisite: Art 301 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

This is a continuation of Art 301. Students are expected to complete an additional 2 hours per week of studio homework.

**303 Watercolor Painting III (3) UC:CSU**

*Prerequisite: Art 302 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

This is a continuation of Art 302.

**304 Acrylic Painting I (3) UC:CSU**

*Prerequisite: Art 300 or 501 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

This course is an introduction to fundamental skills in acrylic media, canvas preparation and brush techniques. Composition and color theory are studied as applied to still life, landscape and natural forms. Students are expected to complete an additional 2 hours per week of studio homework.

**305 Acrylic Painting II (3) UC:CSU**

*Prerequisite: Art 304 with a grade of C or better or equivalent.*

Lecture 2 hours; studio 2 hours.

This course is a continuation of Art 304. Students are expected to complete an additional 2 hours per week of studio homework.

**501 Beginning Two-Dimensional Design (3) UC:CSU**

Lecture 2 hours; studio 2 hours.

This course provides an introduction to organization on the two dimensional plane. Scale, shape, texture, motion and color are focused upon. Fundamentals of modulations, modification and variation are explored. Students are expected to complete an additional 2 hours per week of studio homework.

**502 Beginning Three-Dimensional Design (3) UC:CSU**

*Prerequisite: Art 501 with a grade of C or better or equivalent. Art 503 may be taken concurrently.*

Lecture 2 hours; studio 2 hours.

This course provides an introduction to the organization of forms in three dimensions. Experimental problems in a variety of materials using various spatial constructions are dealt with. Students are expected to complete an additional 2 hours per week of studio homework.

**503 Intermediate Design (3) UC:CSU**

*Prerequisite: Art 501 with a grade of C or better or consent of instructor.*

Lecture 2 hours; studio 2 hours.

This continuation of Art 501 stresses the individual's sensitivity to color enabling the painter, designer or layperson to utilize color for expression. Students are expected to complete an additional 2 hours per week of studio homework.

**706 Clay Sculpture I (2) CSU**

Lecture 1 hour; studio 3 hours.

Design in three dimensions and in relief and basic sculptural processes in clay are explored. Students are expected to complete an additional 2 hours per week of studio homework.

**708 Introduction to Ceramics (3) UC:CSU**

Lecture 1 hour; studio 5 hours.

Instruction in wheel throwing and hand construction is provided. Simple experiments are conducted in the formulation of clay bodies and glazes. Analysis of form, function and decoration emphasizing the proper use of materials and tools in the basic methods of clay construction is stressed.

**709 Ceramics I (3) UC:CSU**

*Prerequisite: Art 708 with a grade of C or better or equivalent.*

Lecture 1 hour; studio 5 hours.

Development of students' technical skills is continued with emphasis on individual growth in creative design abilities. Loading and firing of kilns and study of ceramic raw materials are included.

**710 Ceramics II (3) UC:CSU**

*Prerequisite: Art 709 with a grade of C or better or equivalent.*

Lecture 1 hour; studio 5 hours.

This course is a continuation of Art 709.

**711 Ceramics III (3) UC:CSU**

*Prerequisite: Art 710 with a grade of C or better or equivalent.*

Lecture 1 hour; studio 5 hours.

This course is a continuation of Art 710.

**712 Ceramics Workshop (2) CSU**

Studio 4 hours.

This course provides a studio experience for beginning and advanced potters. A variety of construction methods are undertaken simultaneously, including handbuilding, wheel-throwing and simple mold production. Techniques for surface enrichment, glazing and firing are explored at various levels of ability.

**185 Directed Study - Art Honors (1) UC:CSU****285 Directed Study - Art Honors (2) UC:CSU****385 Directed Study - Art Honors (3) UC:CSU**

*Prerequisite: Consent of instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in Art on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*



## ASTRONOMY

### 1 Elementary Astronomy (3)

#### UC:CSU

All areas of modern astronomy are discussed in this introductory course. Major topics include: the sun, moon and planets; stars and galaxies; telescopes and other instruments; constellations; and the history of astronomy. *Acceptable for Astronomy 3 credit, UCLA.*

## AVIATION MAINTENANCE TECHNICIAN

*Note: Subject credit for courses in this program may be obtainable at California State University, San Jose and at National University after transfer.*

### 1 Maintenance Procedures (3)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 2.*

Lecture 3 hours.

Instruction is offered in ground operation, servicing airplanes, maintenance publications, forms, records, and mechanic's privileges and limitations. Aircraft materials and processes are identified with emphasis on inspection procedures.

### 2 Maintenance Procedures Laboratory (2)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 1.*

Laboratory 6 hours.

Instruction and practice is offered in the ground operation and servicing of airplanes. Maintenance publications, forms, and records are used in conjunction with inspection and repair procedures. Materials are identified and inspected to specifications.

### 3 Basic Aircraft Science (3)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 4.*

Lecture 3 hours.

Instruction is offered in applied mathematics, physics, aircraft drawing, application of aircraft coverings, doping, and corrosion control.

### 4 Basic Aircraft Science Laboratory (2)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 3.*

Laboratory 6 hours.

Instruction and practical application is offered in basic mathematics, physics, aircraft drawings and prints. Instruction and practice is also given in wood structures, aircraft coverings, aircraft finishing and corrosion control.

### 5 Basic Electricity and Auxiliary Systems (3)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 6.*

Lecture 3 hours.

Instruction is offered in basic electricity, Ohm's law, DC and AC circuits, semi-conductors, metric prefixes, and scientific notation. Communication and navigation systems, cabin atmosphere control, position and warning systems and ice and rain control systems are also covered.

### 6 Basic Electricity and Auxiliary System Laboratory (2)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 5.*

Laboratory 6 hours.

This course describes relationships between voltage, current and power and explains how to use testing and measuring equipment in the inspection, checking, servicing and repair of the following systems: air-conditioning, communication and navigation, position and warning, and ice and rain control.

### 7 Electrical and Instrument Systems (3)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 8.*

Lecture 3 hours.

Instruction is offered in the function of aircraft electrical systems and components, generators, and aircraft instruments, including flight, navigation, and engine instruments.

### 8 Electrical and Instrument Systems Laboratory (2)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 7.*

Laboratory 6 hours.

An analysis is made of series, parallel and complex electrical circuitry in D.C. and in A.C., supplemented by discussion of testing and measuring equipment. Description, operation, and maintenance procedures for aircraft instrumentation are also explained.

### 9 Assembly, Rigging and Inspection (3)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 10.*

Lecture 3 hours.

Instruction is offered in assembly and rigging techniques, with weight and balance theory and procedure emphasized, and in the fabrication and installation of fluid lines and fittings.

### 10 Assembly, Rigging and Inspection Laboratory (2)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 9.*

Laboratory 6 hours.

Instruction is provided in the skills and techniques needed for the assembly and rigging of airframe structures, including weight and balance computation. Opportunity is provided to fabricate fluid lines and fittings.

### 11 Aircraft Metal Assembly (3)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 12.*

Lecture 3 hours.

This course offers a study of metal repair procedures, including the materials and methods of fastening by welding, riveting, and other accepted techniques.

### 12 Aircraft Metal Assembly Laboratory (2)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 11.*

Laboratory 6 hours.

Instruction and practice is offered in cutting, bending, forming, welding and fastening metal

structures. Plastic enclosures and honeycomb are evaluated. Structural repairs using various fastening and bonding techniques are emphasized.

### 13 Hydraulic, Landing Gear, and Fuel Systems (3)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 14.*

Lecture 3 hours.

Instruction is offered in the study of hydraulic, landing gear, and aircraft fuel systems. Emphasis is placed on component design, operation, relationships, and system troubleshooting.

### 14 Hydraulic, Landing Gear, and Fuel Systems Laboratory (2)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 13.*

Laboratory 6 hours.

Hydraulic, landing gear, and fuel systems are studied and operated, with components removed and reinstalled. Emphasis is placed on procedure and techniques, troubleshooting, and diagnosis.

### 15 Propeller and Powerplant Systems (3)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 16.*

Lecture 3 hours.

Instruction is offered in propellers, powerplant lubrication, cooling, induction, and exhaust systems. Fire protection, including fire detection and extinguishing systems, is included.

### 16 Propeller and Powerplant Systems Laboratory (2)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 15.*

Laboratory 6 hours.

Instruction and practice is offered in identifying lubrication; troubleshooting engine lubricating systems; servicing and repairing propellers and control systems; troubleshooting and repairing powerplant cooling, induction and exhaust systems; and inspecting and servicing powerplant fire protection systems.

### 17 Ignition and Fuel Metering Systems (2)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 18.*

Lecture 3 hours.

Instruction is offered in the principles and practices of aircraft powerplant ignition systems and fuel metering systems.

### 18 Ignition and Fuel Metering Systems Laboratory (2)

*Prerequisite: Must be taken concurrently with Aviation Maintenance Technician 17.*

Laboratory 6 hours.

Instruction and practice is offered in inspecting, checking, servicing, troubleshooting, and repairing aircraft ignition and fuel metering systems.

### 19 Reciprocating Powerplant Overhaul (3)

*Prerequisite: Aviation Maintenance Technician 15 and 17. Must be taken concurrently with Aviation Maintenance Technician 20.*

Lecture 3 hours.

Instruction is offered in maintenance, publications, basic engine theory and overhaul procedures of reciprocating engines.

### 20 Reciprocating Powerplant Overhaul Laboratory (2)

*Prerequisite: Aviation Maintenance Technician 16 and 18. Must be taken concurrently with Aviation Maintenance Technician 19.*

Laboratory 6 hours.

Instruction and practice is offered in use of maintenance publication records relative to overhaul procedure. Complete engine overhaul procedures and methods and practice are presented.

### 21 Powerplant Trouble Shooting and Testing (3)

*Prerequisite: Aviation Maintenance Technician 19. Must be taken concurrently with Aviation Maintenance Technician 22.*

Lecture 3 hours.

Instruction is offered in engine inspection and troubleshooting procedures for reciprocating engines. Course includes turbine engine theory and operation.

### 22 Powerplant Trouble Shooting and Testing Laboratory (2)

*Prerequisite: Aviation Maintenance Technician 20. Must be taken concurrently with Aviation Maintenance Technician 21.*

Laboratory 6 hours.

Instruction and practice is offered in the installation, operation, and troubleshooting of aircraft powerplants.

### 23 Inspection and Evaluation (3)

*Note: Student must have a minimum 2.0 GPA in Aviation Maintenance Technology prior to enrollment in AMT 23, 24.*

*Prerequisite: Aviation Maintenance Technician 1 through Aviation Maintenance Technician 22 or authorization for written exams and/or consent of instructor. Must be taken concurrently with Aviation Maintenance Technician 24.*

Lecture 3 hours.

Instruction is offered in conducting 100-hour inspections. General airframe and powerplant subjects for the Airframe and/or Powerplant License are reviewed. Emphasis is placed on preparation for Federal Aviation Administration written examinations.

### 24 Inspection and Evaluation Laboratory (2)

*Note: Student must have a minimum 2.0 GPA in Aviation Maintenance Technology prior to enrollment in AMT 23, 24.*

*Prerequisite: Aviation Maintenance Technician 1 through Aviation Maintenance Technician 22 or authorization for written exams and/or consent of instructor. Must be taken concurrently with Aviation Maintenance Technician 23.*

Laboratory 6 hours.

Instruction and practice is offered in conducting a 100-hour inspection on an airframe and powerplant and using the appropriate reference material and correct procedures to determine airworthiness of an airframe or powerplant. Students perform general, airframe, and powerplant practical projects.

### 25 Federal-Oral and Practical Examinations (3)

*Prerequisite: Aviation Maintenance Technician 1 through Aviation Maintenance Technician 24 and written exams passed, or Aviation Maintenance Technician 23 through Aviation Maintenance Technician 24 and written exams passed or meet requirements of Federal Air Regulation part 147 or written permission of instructor as per Federal Air Regulation 65.80.*

Lecture 3 hours.

Instruction and practice is offered in oral and practical examinations for the airframe and powerplant technician. Using FAA guidelines, oral and practical examinations are conducted by a designated mechanic examiner.

### 26 Federal-Oral and Practical Examinations (2)

*Prerequisite: Aviation Maintenance Technician 1 through Aviation Maintenance Technician 24 and written exams passed or Aviation Maintenance Technician 23 through Aviation Maintenance Technician 24 and written exams passed, or written permission of instructor as per Federal Air Regulation 65.80.*

Laboratory 6 hours.

Instruction and practice is offered in oral and practical examinations for the airframe and powerplant technician. Using FAA guidelines, oral and practical examinations are conducted by a designated mechanic examiner.

### 31 Inspection Authorization for Aviation Mechanics (3)

*Prerequisite: FAA Mechanic Certificate with Airframe and Powerplant ratings.*

Lecture 3 hours.

Instruction is offered on the Certificated Aviation Mechanic reviewing regulations, inspection procedures and preparation for the Federal Aviation Administration Mechanic Inspection Authorization.

### 32 Aviation Management (3) CSU

This course surveys general aviation management principles and practices, including airport and airline management. Among specific topics are repair station requirements, flight operations, aircraft maintenance, safety, regulations, personnel management, marketing, office administration, and trends.

### 53 Aeronautical Ground School I (3)

Lecture 3 hours.

This course fulfills the Federal Aviation Administration requirements of private pilot ground school instruction with the basic study of aeronautics, Federal Aviation Regulations, physiology of flight, fundamentals of flight, meteorology, navigation and flight planning.

### 61 Science of Aeronautics I (3)

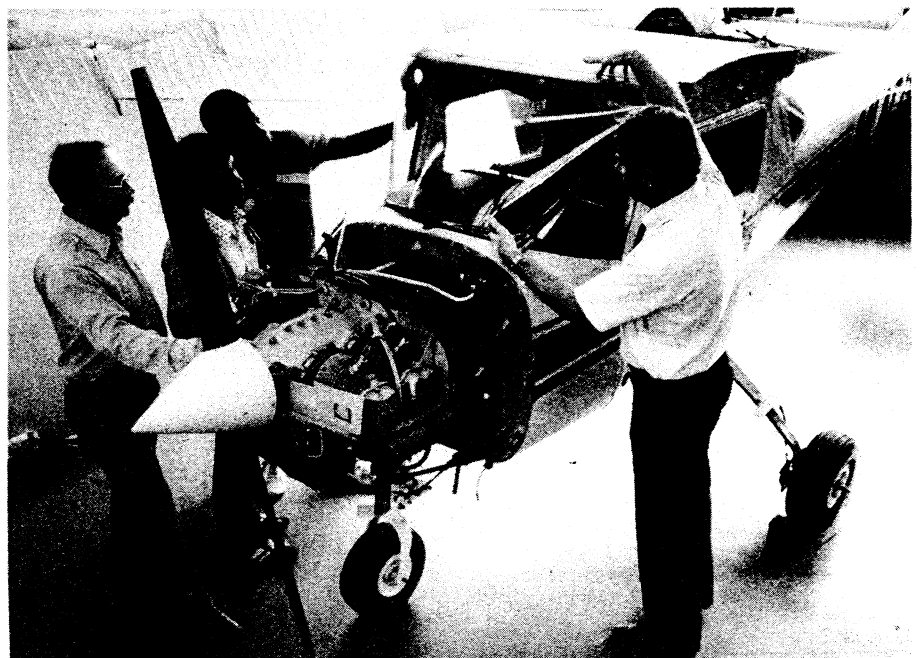
Lecture 3 hours.

Instruction is offered in basic aeronautical navigation procedures of dead reckoning and radio, with emphasis on flight planning and the use of published aids. This course is presented as preparation for the FAA Commercial Pilot Rating.

### 89 Preventive Maintenance for Pilots (3)

Lecture 3 hours.

Aircraft maintenance that is permitted by pilots is discussed and demonstrated. Part 43 of the Federal Aviation Agency is used as the guiding rule. A complete aircraft is used for demonstration.





## BIOLOGY

### 3 Introduction to Biology (4) UC:CSU

Lecture 3 hours; laboratory 3 hours. Biological principles, activities and relationships of living organisms to each other and the world they live in, with emphasis on their correlations to the human organism are surveyed.

Acceptable for Biology 2 with Lab, credit UCLA.

### 4 Heredity and Human Development (3) UC:CSU

Lecture 3 hours. This is an introductory genetics course for non-science majors. Emphasis is placed on the facts and fictions of heredity including its relationship to evolution, reproduction, genetic counseling and various human conditions and diseases.

### 5 Introduction to Human Biology (4) UC:CSU

Prerequisite: Eligibility for English 28 and completion of Mathematics 30 or equivalent.

(NOTE: This course is presented in two modules: module A, lecture; module B, laboratory. Concurrent enrollment in the modules is required.)

Lecture 3 hours; laboratory 3 hours. This course provides a basic introduction to biological principles. In addition, emphasis is given to the study of the basic unit of life, the cell, and animal tissues. This course is the prerequisite for Anatomy 1, Microbiology 20 and Physiology 1. Recommended for non-biology science majors (Formerly Zoology 5.)

### 6 General Biology I (5) UC:CSU

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

Lecture 3 hours; laboratory 6 hours. The principles of molecular biology, cell structure and function, genetics, evolution and organization at the tissue level in plants and animals are studied. Biology 6 and 7 satisfy requirements of lower division zoology and botany for biological science majors.

Acceptable for Biology 7, credit UCLA.

### 7 General Biology II (5) UC:CSU

(Biology 7 may be taken before Biology 6.)

Prerequisite: none.

Recommended: UCLA and CSUN recommend the completion of both Biology 6 and 7 as a core program.

Lecture 3 hours; laboratory 6 hours. This course covers the principles of organ and organ system physiology in plants and animals, ecology and the course of evolution. A survey of the various plant and animal groups is included.

Acceptable for Biology 5, credit UCLA.

### 10 Natural History I (4) UC:CSU

Recommended: Some prior biology experience.

Lecture 2 hours; laboratory 3 hours. This course surveys the plants and animals of Southern California, their history, ecology, interrelationships and classification, with emphasis on the valley and marine environments of the local Santa Monica and San Gabriel Moun-

tains. Laboratory experience includes field trips to each area.

Acceptable for Biology 21 with Lab, credit UCLA.

## BROADCASTING

### 1 Fundamentals of Radio and Television Broadcasting (3) CSU

Required of all Broadcasting majors. Open to others.

Lecture 3 hours.

This course focuses on the basic phases of radio and television broadcasting, including its history, legal aspects, networks, FCC, programming, use of motion pictures and videotapes, sales, public service, studio procedure and station personnel.

### 46 Fundamentals of Television Production (4) CSU RPT 1

Prerequisite: Completion of, or concurrent enrollment in Broadcasting 1 or consent of instructor.

Lecture 3 hours; laboratory 3 hours. This course emphasizes all major elements of television production work, including studio camera set-up and operation, lighting, set design, microphones, crew positions, video taping, and striking. Students practice in crews, rotating positions. The development of television as a communications medium is also discussed, along with the language of visual literacy. Acceptable for credit: 12 units maximum from Broadcasting 46 and Theater 267, 270, and 271, UC campuses.

### 185 Directed Study - Biology (1) UC:CSU

### 285 Directed Study - Biology (2) UC:CSU

### 385 Directed Study - Biology (3) UC:CSU

Prerequisite: Consent of instructor.

Conference 1 hour per unit. Allows students to pursue Directed Study in Biology on a contract basis under the direction of a supervising instructor.

Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.

## BUSINESS

Also listed alphabetically in this catalog: Accounting, Business, Business Data Processing, Finance, Law, Management, Marketing, Office Administration, Real Estate, Supervision.

### 1 Introduction to Business (3) CSU

(NOTE: Students who are business majors or who are considering a change to this major are advised to take this course as a foundation. It is a survey of the fundamental aspects of all phases of business.)

Forms of business organization, finance, personnel problems, marketing, managerial aids and business-government relations are surveyed. Students are given an overview of all facets of business.

### 5 Business Law I (3) UC:CSU (Same as Law I)

Essentials of the law of contracts, agency, employment, personal property, bailments, sales and real property in their application to everyday problems pertaining to business and to the individual. Elementary safeguards regarding sales and sales contracts. Case discussion and lecture method.

### 31 Business English (3)

NOTE: English Placement exam required.

This course offers intensive review of the mechanics of English: spelling, grammar, punctuation, sentence structure and word usage. These principles are applied to the writing of sentences and paragraphs. Business 31 also develops business vocabulary skills.

### 32 Business Communications (3) CSU

Prerequisite: Business 31 with a grade of C or better and the ability to type.

Business 32 develops the ability to use techniques of expository and argumentative writing when composing business letters, memos, and reports. Emphasis is placed on the fundamentals of clear, direct expression, correct English usage, and the psychology of business letter composition and communication.

### 38 Business Computations (3) CSU

This course provides a brief review of the fundamentals of computations followed by applications of non-algebraic mathematics to wage payment methods and payroll preparations; percentage, markon, markup, markdown and turnover, cash and trade discounts; simple interest and applications of compound interest principles to investment, annuity and depreciation problems

### 185 Directed Study - Business (1) CSU

### 285 Directed Study - Business (2) CSU

### 385 Directed Study - Business (3) CSU

Conference 1 hour per unit. Allows students to pursue Directed Study in Business on a contract basis under the direction of a supervising instructor. Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.

### Cooperative Work Experience Education

Business is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

## BUSINESS DATA PROCESSING

All data processing classes are listed under Computer Science-Information Technology. Previous class designations along with their current numbers are as follows:

| Old    | Current   |
|--------|-----------|
| BDP-1  | CO SCI-1  |
| BDP-21 | CO SCI-7  |
| BDP-22 | CO SCI-3  |
| BDP-29 | CO SCI-11 |
| BDP-30 | CO SCI-12 |
| BDP-31 | CO SCI-8  |
| BDP-58 | CO SCI-17 |

### 65 Business Systems Applications for Microcomputers (4) CSU

*Prerequisite: Knowledge of simple algebra and business mathematics.*

Intended for those wishing to increase personal productivity in the business environment. This course covers the major functions of automated spreadsheet programs such as LOTUS 1-2-3, word processing programs such as WordStar, and data base management packages such as dBase III.

## CHEMISTRY

### 1 General Chemistry I (5) UC:CSU

*Prerequisites: 1. Either high school chemistry or Chemistry 10 with a grade of C or better, and a satisfactory score on a chemistry placement examination given in advance of registration. Students should consult the Admissions Office, the Counseling Office or the Chemistry Department for dates of examinations.*

*2. A minimum of two years of high school mathematics or completion of Mathematics 220 or its equivalent. Both prerequisites must have been completed within the last two years. Recommended: Completion of English 28 or a more advanced reading and composition course with a grade of C or better; or eligibility for English 1.*

Lecture and conference 5 hours; laboratory 4 hours.

This is a basic course emphasizing principles and theories. It includes discussions of chemical stoichiometry, atomic and molecular structure and the periodic table, gases, liquids, solids, solutions, oxidation-reduction, acids and bases, and an introduction to chemical thermodynamics. The laboratory emphasizes basic laboratory skills, chemical principles, and quantitative relationships.

*Chemistry 1 and Chemistry 2 are acceptable for Chemistry 11 ABC, BL, CL credit, UCLA. No credit for Chemistry 3 or 10 if taken after Chemistry 1.*

*One course maximum credit for 3 or 10.*

### 2 General Chemistry II (5) UC:CSU

*Prerequisite: Chemistry 1 with a grade of C or better within the last two years.*

Lecture and conference 5 hours; laboratory 4 hours.



This course is a continuation of Chemistry 1, with an introduction to chemical kinetics, chemical equilibrium with emphasis on aqueous equilibria, electrochemistry, nuclear chemistry, organic chemistry, and descriptive inorganic chemistry. The laboratory includes both quantitative experiments and qualitative analysis. *Chemistry 1 and 2 are acceptable for Chemistry 11 ABC, BL, CL credit, UCLA. No credit for Chemistry 3 or 10 if taken after Chemistry 1.*

### 3 Introductory Chemistry (5) UC:CSU

*Prerequisites: A knowledge of basic arithmetic as taught in Mathematics 105 (Arithmetic for College Students) is essential; Mathematics 115 (Elementary Algebra) or one year of high school algebra is highly recommended.*

*Also recommended is completion of English 21 or a more advanced reading and composition course with a grade of C or better; or eligibility for English 28.*

Lecture and conference, 4 hours; laboratory, 3 hours.

This introductory course emphasizes the principles of chemistry, including inorganic and organic chemistry. It is intended for students in nursing, home economics, physical education, elementary education, and for liberal arts majors who need a physical science laboratory course. Students intending to take Chemistry 1 should take Chemistry 10 rather than Chemistry 3.

*Acceptable for Chemistry 2 with Lab, credit UCLA.*

### 4 Basic Chemistry (3) UC:CSU

A survey of chemistry as a science and its relationship to other sciences is made. Mathematics is held to a minimum while basic chemical ideas are developed. A laboratory section is not included in the course. Demonstrations are used to illustrate lectures. This course is not open to students who have completed Chemistry 1, 3, or 11. It is designed for the non-science major's general education requirements.

### 9 Introductory Organic and Biochemistry (4) UC:CSU

*Prerequisite: Chemistry 1, 3 or 10, with a grade of C or better.*

Lecture 3 hours; laboratory 3 hours.

This course is designed for students who are majoring in dental hygiene, home economics or nursing. Emphasis is placed on organic chemistry and the processes that occur in living tissues. The relationship between organic and biochemistry is presented at the molecular as well as the cellular level.

### 10 Introduction to General Chemistry (5) UC:CSU

*Prerequisite: One year of high school algebra or Mathematics 115 and a satisfactory score on an entrance examination testing background for this course.*

*Recommended: Completion of English 21 or a more advanced reading and composition course with a grade of C or better; or eligibility for English 28.*

Lecture and conference 5 hours; laboratory 2 hours.

This basic chemistry course presents elementary principles of general chemistry, including nomenclature and problem solving. Students whose previous chemistry background is inadequate for Chemistry 1 should take this course in preparation for Chemistry 1. Chemistry 10 is also recommended for students who have been away from high school chemistry for more than two years.

*Acceptable for Physical Science M2 or Chemistry M2 credit, UCLA.*

*Maximum of one course from Chemistry 3 or 10. Maximum of 4 credits transferable to UC. No credit for Chemistry 3 or 10 if taken after Chemistry 1.*

### 14 Introductory Organic Chemistry (5) UC:CSU

*Prerequisite: Chemistry 2 with a grade of C or better.*

Lecture 3 hours; laboratory 6 hours. The student is introduced to structure, bonding, stereochemistry and functional group chemistry with emphasis on mechanisms. In the laboratory the essential skills of preparation, isolation, purification and identification of organic compounds are presented.

*Chemistry 14 acceptable for Chem. 21 with Lab credit, UCLA.*

**15 Introductory Biochemistry (5)****UC:CSU**

*Prerequisite: Chemistry 14 with a grade of C or better.*

Lecture 3 hours; laboratory 6 hours.

An introduction to the structure, properties, and metabolism of carbohydrates, fats, proteins, nucleic acids, vitamins and hormones. Relationships between metabolism and energy are presented. In the laboratory, the preparation and reactions of biologically important compounds, both chemical and enzymatic, are investigated.

*Chemistry 14 with 15 acceptable for Chem. 21. 23. 24 credit, UCLA.*

**30 Chemistry Review (1)**

*Prerequisite: Concurrent enrollment in Chemistry 3 or 10.*

This is a 1-hour-per-week review period in which students who have difficulty with problem-solving are provided opportunities for supervised study and work in chemical calculations.

**185 Directed Study - Chemistry (1) UC:CSU****285 Directed Study - Chemistry (2) UC:CSU****385 Directed Study - Chemistry (3) UC:CSU**

*Prerequisite: Consent of instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in Chemistry on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

**CHILD DEVELOPMENT****1 Child Growth and Development (3) UC:CSU**

Lecture 3 hours.

The process of human development from pre-birth to adolescence is studied. Emphasis is placed on development which enables children to reach physical, mental, emotional and social maturity.

**2 The Child and the School (3) CSU**

*Prerequisite: Verification of annual tuberculosis test.*

Lecture 3 hours.

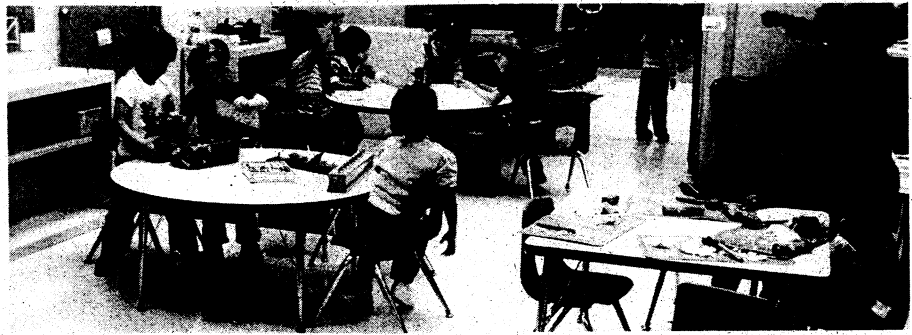
This is a survey course of preschool education. The student becomes aware of various types of schools offering experiences to children between 2 and 5 years of age. The personal characteristics of preschool teachers and opportunities for careers in the field are studied. Curriculum suitable for preschool children is included.

**3 Creative Experiences for Children I (3) CSU**

*Recommended: Child Development 1 and 2.*

Lecture 3 hours.

Many types of creative experiences for young children are explored including painting, clay, music, drama, art materials and language de-



velopment. The student has an opportunity to learn to set up, control and evaluate children's experiences in a classroom setting.

**6 The Residential Child Care Worker (3) CSU**

Lecture 3 hours.

This is a basic "How-to" training course for staff of children's institutions and group homes and for foster parents dealing with emotionally disturbed, neglected, dependent, retarded and physically handicapped children.

**10 Child Health (3) CSU**

*Recommended: Child Development 1 and 2.*

Lecture 3 hours.

This course includes information on the nutritional needs and physical and mental well-being of children from birth to adolescence. Information dealing with special problems/handicaps is included. Habits and attitudes toward health are discussed. Community resources which are available to assist in the physical and mental well-being of the child are explored.

**11 Home, School and Community Relations (3) CSU**

*Recommended: Child Development 1 and 2.*

Lecture 3 hours.

A study is made on the effect of children's homes, schools and communities on their development. Special emphasis is placed on the dynamics of human relations in the multi-cultured urban setting. The cooperation between all agencies connected with the young child is studied in depth.

**12 Parent Involvement in Early Childhood (3) CSU**

*Recommended: Child Development 1 and 2.*

Lecture 3 hours.

Emphasis is placed on familiarizing students with techniques used in parent-teacher conferences to enable them to relate better to the families of the children in their classrooms. Techniques such as role-playing and personal interviews are utilized to give students confidence in working with parents and their specific problems.

**21 Child Development Practices (3) CSU**

*Prerequisite: Child Development 1 and 2 or consent of instructor. Verification of annual tuberculosis test and fingerprinting required.*

Lecture 2 hours; laboratory 3 hours.

Teaching methods and program planning for preschool students are examined along with the use of materials and equipment in the classroom. Observation and limited participation in the preschool classroom are included as

well as discussions on the development of well-adjusted personality during the preschool years.

**22 Laboratory in Child Development (4) CSU RPT 1**

*Prerequisite: Child Development 1, 2 and 21. Verification of annual tuberculosis test and fingerprinting required.*

Lecture 2 hours; laboratory 6 hours.

Work with nursery school children is conducted under the direction of a nursery school staff member and is supplemented by the supervision of the course instructor. Emphasis is placed on developing, implementing and evaluating classroom experiences for young children.

**30 Infant Studies (3) CSU**

*Prerequisite: Child Development 1.*

Lecture 3 hours.

A survey of infant-toddler development and current educational programs is provided. Principles of infant-toddler care and environmental and curricular design are studied. An opportunity for observation and participation in field and clinical work is offered.

**34 Observing and Recording Children's Behavior (3) CSU**

Lecture 2 hours; laboratory 1 hour.

This course includes observing, recording and interpreting children's behavior in a variety of settings. Diaries, anecdotes and other forms of written and oral records are explored and used.

**41 Organization and Administration of Nursery Schools (3) CSU**

*Prerequisite: Child Development 1 and 11 or consent of instructor. Recommended: Child Development 2.*

Lecture 3 hours.

The principles and practices of nursery school organization and administration covered include organizational structure, budgeting, personnel policies and practices, records, statistics, reporting and relationship with community resources.

**Cooperative Work Experience Education**

Child Development is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**CINEMA**

*(For classes in Cinema see Theatre 501, 505, 507, 509.)*

## COMPUTER SCIENCE- INFORMATION TECHNOLOGY

For all Computer Science-Information Technology courses, a maximum of 3 courses (9 units) regardless of department is acceptable for transfer to UC campuses.

### 1 Principles of Business Data Processing I (3) CSU

Lecture 3 hours.

Principles of Data Processing are covered, including a survey of electronic computer systems, components, languages and techniques. Examples of scientific and commercial applications are given. Elements and capabilities of electronic computers, programming, systems designing and flow charting are introduced. Computers and related equipment in the campus data center are used to familiarize the student with the actual operation of typical systems.

See Business Data Processing I.

### 3 Business Computer Programming I (3) CSU

*Prerequisite: Computer Science 1 or equivalent experience with consent of instructor.*

Lecture 3 hours.

This course introduces students to modern programming techniques and computer operations. The Pascal language is used to illustrate structured programming methods.

### 7 RPG Programming (3) UC:CSU

*Prerequisite: Computer Science-Information Technology 1 or equivalent experience with consent of instructor.*

Lecture 3 hours.

This course provides instruction in the use of RPG II programming language for production of business reports. The language used is the RPG implementation for the IBM system 34, commonly found in many small businesses.

### 8 Business Data Processing Systems (3) UC:CSU

*Prerequisite: Computer Science 3 or equivalent experience with consent of instructor.*

Lecture 3 hours.

This course covers initiating, planning, executing, and implementing computer systems in business. The DBASE III Data Base Management system is used to give students hands-on experience in the design and implementation of meaningful on-line data processing systems.

### 11 COBOL Programming I (3) UC:CSU

*Prerequisite: Computer Science-Information Technology 3 or 7 or equivalent experience with consent of instructor.*

Lecture 3 hours.

COBOL (Common Business Oriented Language) is a language which facilitates the programming of computers for business applications. The course is intended to cover the four divisions, flowcharting and logic used in COBOL. Students learn the concepts of structured programming, featuring modular programming, top-down design technique, GO TO-less programming and other techniques of

structured programming. Students develop clear, understandable programs to be run on the computer.

### 12 COBOL Programming II (3) UC:CSU

*Prerequisite: Computer Science 11 or equivalent experience with consent of instructor.*

Lecture 3 hours.

This course builds on CS11 by covering advanced features of COBOL and allowing students to write more complex programs typical of those found in the business environment. Subjects covered include sorting, ISAM, and random files, segmentation, screen design, and business processing techniques.

### 17 Assembly Language Programming (3) UC:CSU

*Prerequisite: Computer Science-Information Technology 3 or equivalent experience with consent of instructor.*

Lecture 3 hours.

This course provides instruction in the use of a MACRO assembler language. The 8086 assembler language implemented on the IBM-PC and many other micro-computers is used. This course covers the instruction set, interfaces with the operating system, and combination of assembler programs with those written in other languages.

### 19 Programming in PASCAL (3) UC:CSU

*Prerequisite: Computer Science 3 or equivalent experience with consent of instructor.*

Lecture 2 hours, laboratory 2 hours.

This course presents the Pascal programming language, emphasizing its structure and application to business and scientific problems. Advanced data structures such as lists, stacks, and queues will be covered. Students write Pascal programs on campus microcomputers.

### 27 FORTRAN Programming (3) UC:CSU

*Prerequisite: Computer Science-Information Technology 3 or equivalent experience with consent of instructor.*

Lecture 3 hours.

Students learn to use the FORTRAN language to program typical, practical problems as would

be encountered in scientific, industrial and commercial applications. Students write programs which are run on the campus computer. Emphasis is placed on the computer as a tool. The concepts of structured programming, featuring modular programming and top-down design techniques, are emphasized.

### 38 Computer Operations (3) UC:CSU

*Prerequisite: Computer Science 3 or its equivalent experience with consent of instructor.*

Lecture 3 hours.

This course provides an introduction to the operation of modern computer systems. Operating systems and computer system software are described in general. Students learn to operate the computer and its peripheral equipment through job control language and become familiar with the operation and management of a computer center, by using the campus computer. On-line systems technology and processing are emphasized, and microprocessor operation systems are described.

### 39 Advanced Computer Programming (3) UC:CSU

*Prerequisite: Computer Science-Information Technology 3 or equivalent experience with consent of instructor.*

Lecture 3 hours.

This course provides instruction in the use of advanced features of BASIC to solve business problems. Features covered include file handling, graphics, and sound. Students write programs on several 16 bit micro-computers.

### 53 Programming Laboratory (1)

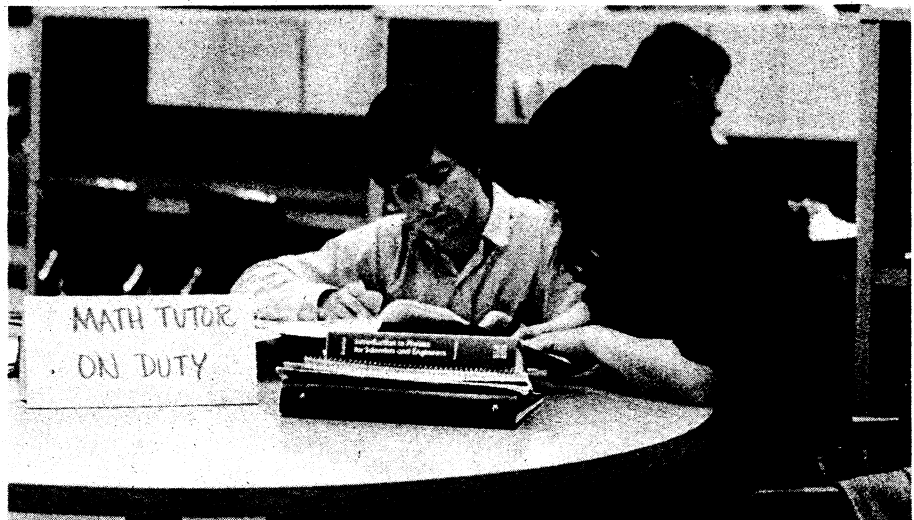
Laboratory 2 hours.

This class provides students with access to modern computers as well as tutoring in the operation of computers.

### Cooperative Work Experience Education

Computer Science-Information Technology is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

See also: Office Administration 76, Keyboarding for Data Processing.



## COOPERATIVE EDUCATION

The following courses provide Cooperative Work Experience Education credit. See Cooperative Work Experience Education in the Educational Program Section of the Catalog. Limits to transfer credit are explained in the Cooperative Education Credit Guide.

- 191 Work Experience in Major I**  
(1) UC:CSU  
**291 Work Experience in Major I**  
(2) UC:CSU  
**391 Work Experience in Major I**  
(3) UC:CSU  
**491 Work Experience in Major I**  
(4) UC:CSU

*Prerequisite: Employment in a field related to the students' major as verified by the signature of the Cooperative Education Advisor.*

Supervised training is conducted in the form of on-the-job training in an employment area that will enhance the students' educational goals on campus.

*Limits to transfer credit: See Cooperative Education Credit Guide.*

- 192 Work Experience in Major II**  
(1) UC:CSU  
**292 Work Experience in Major II**  
(2) UC:CSU  
**392 Work Experience in Major II**  
(3) UC:CSU  
**492 Work Experience in Major II**  
(4) UC:CSU

*Prerequisite: Completion of course 191, 291, 391 or 491, Work Experience in Major I, and employment in a field related to the students' major as verified by the signature of the Cooperative Education Advisor.*

Advanced supervised training is conducted in the form of on-the-job training in an employment area that will enhance the students' educational goals on campus.

*Limits to transfer credit: See Cooperative Education Credit Guide.*

- 193 Work Experience in Major III**  
(1) UC:CSU  
**293 Work Experience in Major III**  
(2) UC:CSU  
**393 Work Experience in Major III**  
(3) UC:CSU  
**493 Work Experience in Major III**  
(4) UC:CSU

*Prerequisite: Completion of course 191, 291, 391 or 491, Work Experience in Major I and course 192, 292, 392 or 492, Work Experience in Major II and employment in a field related to the students' major as verified by the signature of the Cooperative Education Advisor.*

Advanced supervised training is conducted in the form of on-the-job training in an employment area that will enhance the students' educational goals on campus.

*Limits to transfer credit: See Cooperative Education Credit Guide.*

- 194 Work Experience in Major IV**  
(1) UC:CSU  
**294 Work Experience in Major IV**  
(2) UC:CSU  
**394 Work Experience in Major IV**  
(3) UC:CSU  
**494 Work Experience in Major IV**  
(4) UC:CSU

*Prerequisite: Completion of course 191, 291, 391 or 491, Work Experience in Major I; course 192, 292, 392 or 492, Work Experience in Major II; course 193, 293, 393 or 493, Work Experience in Major III and employment in a field related to the students' major as verified by the signature of the Cooperative Education Advisor.*

Advanced supervised training is conducted in the form of on-the-job training in an employment area that will enhance the students' educational goals on campus.

*Limits to transfer credit: See Cooperative Education Credit Guide.*

- 195 Work Experience - General I**  
(1)  
**295 Work Experience - General I**  
(2)  
**395 Work Experience - General I**  
(3)

*Prerequisite: None.*

Supervised training is provided in the area of general employment practices with emphasis on attitude, ethics, and integrity. On-the-job training need not be in the college major, but must be educational.

*Limits to transfer credit: See Cooperative Education Credit Guide.*

- 196 Work Experience - General II**  
(1)  
**296 Work Experience - General II**  
(2)  
**396 Work Experience - General II**  
(3)

*Prerequisite: Completion of course 195, 295 or 395, Work Experience - General I.*

Supervised training is provided in the area of general employment practices with emphasis on attitude, ethics, and integrity. On-the-job training need not be in the college major, but must be educational.

*Limits to transfer credit: See Cooperative Education Credit Guide.*

## DENTAL HYGIENE

*(Courses are open to Dental Hygiene Majors only.)*

### 88 Dental Hygiene Development Clinic (1)

Lecture 1 hour.

Discussions and exercises presented will center on case reasoning for Clinical Dental Hygiene. Accumulated theoretical knowledge will be related to practical clinical applications.

### 100 Principles of Clinical Dental Hygiene (2)

Lecture 2 hours.

This course will provide beginning dental hygiene students with the scientific knowledge and understanding of the basic principles of dental techniques and procedures for applying comprehensive hygiene services.

### 101 Clinical Dental Hygiene I (2)

Laboratory 6 hours.

This pre-clinical course Dental Hygiene Services is designed to develop the skills and technique required for performing dental hygiene services and orienting the student to the role and of the clinical dental hygienist.

### 102 Radiology I - Introduction to Radiology (1)

Lecture 1 hour.

A study of the principals and techniques of exposing and processing dental radiographs. Emphasis is placed on radiation safety and protection.

### 103 Radiology I - Laboratory (1)

Laboratory 3 hours.

This laboratory course is designed to provide experience in exposing, processing, mounting charting and interpreting dental radiographs on a manikin.

### 104 Tooth Morphology (2)

Lecture 2 hours.

Through lecture and demonstration, the morphological characteristics and development of the teeth and oral structures are presented. Emphasis is on comparative crown and root anatomy. Some drawing and wax carving of teeth is required.

### 105 General Pathology (2)

Lecture 2 hours.

This lecture course focuses on the basic pathological mechanisms in human disease. Major diseases and disorders encountered in practice are discussed with emphasis on the clinical aspects of the diseases.

### 106 Anatomy and Embryology of the Head and Neck (2)

Lecture 2 hours.

A detailed study of the Anatomy and Embryology of the human head, neck, face and jaw through lecture and demonstration.

### 108 Introduction to Periodontics (2)

*Prerequisite: Enrolled student in Dental Hygiene program.*

Lecture 2 hours.

This course is designed to provide the dental

hygiene student with an introduction to periodontics.

The periodontics will be presented in health and in disease histologically and clinically. Etiology, prevention, diagnosis and Phase I therapy will be discussed.

### 150 Preventive Dentistry (1)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 1 hour.

This course provides the fundamentals for the clinical application of primary preventive dentistry procedures. Content centers on the strategies to prevent plaque diseases and the skills required for effective patient education and motivation.

### 151 Clinical Dental Hygiene II (3)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

At UCLA School of Dentistry, students apply knowledge and basic clinical skills learned in DH 101 and other related classes toward proficiency in performing dental hygiene services. Emphasis will be on the periodontal maintenance and recall patient, and the patient with mild to moderate active periodontal involvement.

### 152 Special Patient Care (1)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 1 hour.

The role of dental hygienist in the care of the special dental patient is the focus of this lecture course. The determining factors and treatment considerations for medically, physically and emotionally handicapped patients will be explored.

### 153 Radiology II - Laboratory (1)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Laboratory 3 hours.

The clinical discipline of Radiographic interpretation of oral and maxillofacial disease is presented for the dental hygienist. Techniques in extradiagonal and specialized radiography are discussed.

### 154 Oral Pathology (2)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 2 hours.

Introduction to the interpretation of clinical and histological pathological conditions with emphasis on clinical signs and symptoms. Oral abnormalities is presented through the use of color slides and case histories.

### 155 Dental Materials (2)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 2 hours.

The purpose of this course is to study the properties, composition and manipulation of materials used in dentistry. The study of dental materials enables the dental hygienist to understand the behavior of these materials and provides a scientific rationale for selecting using and understanding the varied relationships of dental bio-materials.

### 156 Histology of Oral Tissues (2)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 2 hours.

Through lecture and demonstration, the histological structure of oral tissues is presented.

### 200 Introduction to Dental Pathology (1)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 1 hour.

This course provides understanding, recognition and proper treatment of dental tissue pathology. Lectures and discussion cover the aspects of occlusal dysfunction, dental caries, dental densensitization and traumatic injuries to the teeth.

### 201 Clinical Dental Hygiene III (4)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Clinic 12 hours.

In a clinical setting students apply specific knowledge and skills learned in preclinical and didactic courses. Emphasis will be on treating the patient with moderate active periodontal involvement. Rotating assignments into dental specialty clinics at UCLA provide the opportunity to learn of the role of the dental hygienist in these areas.

### 202 Dental Specialties and Expanded Functions (2)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 2 hours.

This course is designed to enable the dental hygiene student to understand and appreciate the various aspects of dentistry. Lectures are presented on all recognized dental specialties as well as on current concepts in the dental field.

### 203 Dental Specialties and Expanded Functions - Laboratory (1)

Laboratory 3 hours.

This laboratory course is designed to provide experience in selected functions and manip-

ulations or various oriental materials with emphasis on the role of the dental hygienist as a member of the health team. Procedures include: Placement and removal of rubber dam; sizing of stainless steel crowns; sizing, placement and removal of temporary crowns and restorations; mouth-guard construction placement and removal of anterior and posterior matrices; finishing of amalgam restoration; intra-oral photographs; placement of pit fissure sealants, placement and removal of periodontal dressings, placement and removal of sutures; vitality testing, placement of temporary wire ligation and taking amalgam impression.

### 204 Dental Health Education (1)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 1 hour.

This course to dental health education is designed to orient dental hygiene students in the role of dental health educator. This course the concepts of school program planning, development of evaluation mechanisms and coordinating efforts with educational and community systems in teaching elementary pre-school aged children and those with special handicaps.

### 205 Dental Health Education - Practicum (1)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Practicum 3 hours.

This practicum course to dental health education, DH 204, is designed to provide the dental hygiene student with experiences in dental health education.

### 206 Periodontics (1)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 1 hour.

Lectures on anatomy, histology and pathology of the periodontium are correlated with the clinical aspects of periodontal disease and the various therapeutic measures currently in use. Rationale and procedures for sub-gingiva — curettage will be discussed.

### 207 Pain Control (1)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Management of pain control through the use of local anesthetics and nitrous oxide and oxygen sedation is studied through lectures and laboratory exercises.

### 208 Pharmacology (3)

*Prerequisite: Enrollment limited to 2nd year Dental Hygiene students.*

Lecture 3 hours.

This course presents the general principles of pharmacology including the pharmacodynamics, pharmacokinetics, adverse reactions, and contraindications of drugs. Emphasis will

be placed on those drug groups especially relevant to dental practice including the general anesthetics, local anesthetics, sedatives, analgesics, antiseptics, autonomic drugs, and antibiotics.

### 210 Emergencies in Dental Practice (1)

*Prerequisite: Enrolled student in Dental Hygiene.*

This course is designed to provide the student with the background and skill to recognize and manage any emergency situation that might develop in the practice of dentistry. Emphasis will be placed on prevention, prompt recognition, and effective treatment of life-threatening emergency situations that can occur in the practice of dentistry.

### 250 Advanced Periodontal Seminar (1)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 1 hour.

This course is designed to provide the dental hygienist with an advanced background in periodontics. The development of a periodontal treatment philosophy will be accomplished through reading in the classical and current literature. Emphasis will be placed on nuances of periodontal care, controversies and state of the art understanding developed through the reading of scientific literature.

### 251 Clinical Dental Hygiene IV (4)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Clinic 12 hours.

In a clinical setting students apply specific knowledge/skills learned in clinical/didactic courses. Emphasis will be on treating the patient with moderate to advanced active periodontal involvement. Clinical experiences at higher levels of skill/proficiency are required

to prepare the student for licenses. Rotating assignments into dental specialty clinics at U.C.L.A. provide the opportunity to learn of the role of the dental hygienist in these areas.

### 252 Essentials of Dental Hygiene Practice (2)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 2 hours.

Lecture, discussion and group activities will focus on the legal, ethical and managerial aspects of dental hygiene practice.

### 253 Community Dental Health (2)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Lecture 2 hours.

This course is a study of the concepts and methods of preventive dentistry as they relate to the oral health of groups. Issues central to community dental health such as access to care, supply and demand, quality assurance, health financing and health policy are discussed.

### 254 Community Dental Health - Practicum (1)

*Prerequisite: Open only to Dental Hygiene students who have completed all Dental Hygiene program courses attempted with a grade of C or better.*

Practicum 2 hours.

The purpose of this practicum is to provide experiences in program planning and implementation at various governmental and voluntary community agencies.

### 255 Nutrition for the Dental Hygienist (2)

*Prerequisite: Chemistry 9.*

Lecture 2 hours.

The relationship of diet and nutrition to various diseases such as periodontal disease, cancer, diabetes, and obesity will be considered as will the nutritional considerations of patients with special needs. Each major nutrient group will be covered along with its biological role.

## DRAFTING

### 1 General Drafting I (3) CSU

*Prerequisite: None.*

Lecture 1 hour; laboratory 5 hours.

This course provides basic training in the preparation of industrial drawings, including the underlying principles of mechanical drawing, the use of drawing instruments, geometric construction, freehand technical sketching, single-view and multi-view drawings, sectioning, and dimensioning.

### 2 Applied Technical Drafting I (4) CSU

*Prerequisite: Drafting 1 or General Engineering 52.*

Lecture 1 hour; laboratory 5 hours.

This course continues development of Drafting 1 techniques and includes ANSI and MIL-STD. conventions, auxiliaries, fasteners, tolerancing, assemblies, and detail drawings.

### 3 Applied Technical Drafting II (4) CSU

*Prerequisite: Drafting 2.*

Lecture 1 hour; laboratory 5 hours.

Emphasizing advanced detail drawings, this course includes secondary auxiliary drawings, advanced developments and intersections, comprehensive treatment of section views and an introduction to positional and geometrical tolerancing.

### 55 Computer Aided Design and Drafting (3) CSU

Lecture 2 hours; laboratory 3 hours.

This course is an introduction to computer-aided drafting and design (CADD). Students will learn to use typical menu oriented systems to: Prepare drawings (two dimensional and produce industrial quality prints on a plotter).

### 185 Directed Study - Drafting (1) CSU

### 285 Directed Study - Drafting (2) CSU

### 385 Directed Study - Drafting (3) CSU

*Prerequisite: Consent of Instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in Drafting on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*



## ECONOMICS

### 1 Principles of Economics I (3)

#### UC:CSU

This introductory course provides the student with an understanding of the basic economic principles and forces which govern the production and distribution of goods and services. Topics include: forms of business organizations; the role of government in the economic system; value and price in a free enterprise system; labor-management relations and contemporary economic developments.

Acceptable for Economics 1 credit, UCLA.

### 2 Principles of Economics II (3)

#### UC:CSU

This is an introductory course in the principles of macroeconomics. Topics considered include: the national income, business fluctuations, the financial system, public finance, international economics and application of economic principles to contemporary economic developments.

Acceptable for Economics 2 credit, UCLA.

### 4 Economics for the Consumer (3) CSU

Students study economics from the consumer viewpoint. The course deals with the consumer's place in the economy, budgeting, family financial management, consumer choice, consumer credit, saving and investment, estate planning, insurance and consumer aids.

### 10 Economic History of the United States (3) UC:CSU

This course stresses the economic aspects of United States history. Topics considered are colonial commerce and agriculture, economic aspects of the Revolution, rise of the factory system, internal transportation and communication, the agrarian revolution, the consolidation of business, the labor movement, business cycles and world economic relations. Same as History 15.

Acceptable for Economics 10 credit, UCLA.

## EDUCATION

### 6 Methods and Materials of Tutoring (1)

*Prerequisite: Recommendation of faculty in Academic Department, completion of subject course with grade of "B" or higher.*

Laboratory 3 hours.

This course offers instruction in tutoring techniques, group dynamics, record keeping, and organizational skills. Students work from 4-15 hours weekly tutoring students currently enrolled in Learning Assistance 900.

### Cooperative Work Experience Education

Education is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

## ELECTRONICS

Applicable laboratory material fees will be announced by the instructor.

### 2 Introduction to Electronics (3) CSU

*Recommended: Electronics Technology majors should enroll in Electronics 10 concurrently.*

Lecture 3 hours.

An overview of the field of applied electronics and its employment opportunities is presented along with an introduction to components, nomenclature and symbols and a familiarization of equipment specifications and physical units.

### 4 Fundamentals of Electronics I (4) CSU

*Prerequisite: One year of high school algebra or Mathematics 115. Day Students: Recommended that Electronics 2 and 10 be taken concurrently.*

*Evening Students: Recommended that Electronics 10 be taken concurrently.*

Lecture 3 hours; laboratory 3 hours.

The detailed study of direct current theory and applications is made. Topics include DC circuits, Ohm's Law, power sources, magnetism, capacitance, inductance and transient circuits. Emphasis is placed on solving DC circuits using Kirchoff's Laws, mesh and nodal methods, Thevenin's and Norton's Theorems. This course prepares the student for alternating current circuits. Laboratory experience in Ohm's Law, Kirchoff's Laws and instrumentation circuits is given. Laboratory practices include component evaluation and identification, breadboard construction of basic circuits, resistor and capacitor color codes, schematic reading and an introduction to the theory and use of electronic instruments. Students begin measurements with the volt-ohm-milliammeter and digital voltmeter. A scientific pocket calculator is required.

### 6 Fundamentals of Electronics II (4) CSU

*Prerequisite: Electronics 4 or equivalent with at least a grade of C, Electronics 10 with at least a grade of C. Recommended: Electronics 6 and 12 should be taken concurrently.*

Lecture 3 hours; laboratory 3 hours.

A study of the theory and practice of alternating current principles providing a foundation for understanding transistor circuits is presented. Topics include series and parallel LCR circuits, resonance, transformers, coupling, filters and an introduction to pulse waveform terms and values. The laboratory course includes experiments covering material discussed in the lecture. Extensive use is made of signal generators, the laboratory time-base oscilloscope, the digital voltmeter, Q-meter and the impedance bridge.

A scientific pocket calculator is required.

### 10 Mathematics of Electronics I (3) CSU

*Prerequisite: One year of high school algebra or Mathematics 115.*

Lecture 3 hours.

The first course in the mathematics techniques used to solve electronic problems is presented. Scientific notation and units are followed by algebraic operation in fractions, fractional equations, factoring and quadratic equations. A scientific pocket calculator is required. Mathematics 31, Elementary Algebra, may be substituted when Electronics 10 is not offered.

### 12 Mathematics of Electronics II (3) CSU

*Prerequisite: Electronics 10 or Mathematics 115 with a grade of C or better or consent of instructor.*

Lecture 3 hours.

This second course in the techniques of electronics mathematics prepares students for Electronics 6. Trigonometry is applied to electronic circuit problems. Triangle solutions, periodic functions, plane vectors and vector algebra are included with calculator applications and logarithms. A scientific pocket calculator is required.

### 20 Electronic Circuits I (4) CSU

*Prerequisite: Electronics 6, concurrent enrollment or consent of instructor.*

Lecture 3 hours; laboratory 3 hours.

This is the first course in linear circuit analysis and design. The lecture develops and analyzes transistor circuits. It includes a study of the theory and the operation of solid state diodes and bipolar and field-effect transistors with a complete analysis of their basic circuitry. Circuits include voltage and power amplifiers, oscillators and power source circuits. Integrated circuits are introduced. The laboratory supports the principles of the solid state circuits studied in the lecture. Students breadboard, test and evaluate power sources, audio, video and DC amplifiers. Extensive use is made of the transistor curve tracer, signal generators and the time-base oscilloscope.

A scientific pocket calculator is required.



**22 Electronic Circuits II (4) CSU**

*Prerequisite: Electronics 20 or consent of instructor.*

Lecture 3 hours; laboratory 3 hours.

A continuation of solid-state linear circuit analysis and design from Electronics 20 includes design details of cascade resistance and direct coupled amplifiers, integrated differential and operational amplifiers, power amplifiers and sine wave oscillators. There is an introduction to feedback and distortion. The laboratory provides test and evaluation of the circuits and systems studied in lecture. Extensive use of the digital voltmeter time-base oscilloscope and signal generator are continued.

*A scientific pocket calculator is required.*

**24 Electronic Circuits III (4) CSU**

*Prerequisite: Electronics 20 and 22 and/or completion of Core I and II or consent of instructor.*

Lecture 3 hours; laboratory 3 hours.

This is the third course in the circuit design and analysis sequence of solid state switching circuits, pulse techniques, bistable and monostable multivibrators, blocking and time-base oscillators, waveshaping and sweep circuits. Digital logic circuit introduction is made. The laboratory permits the students to breadboard and test advanced solid-state switching circuits using high performance test equipment. Use of the pulse generator, function generator and delayed time-base oscilloscope are made.

*A scientific pocket calculator is required.*

**44 Communications Electronics (3)**

*Prerequisite: Electronics 20 and/or completion of Core I and II or consent of instructor.*

Lecture 3 hours.

This course includes electronic circuit analysis relative to data/information transmittal and reception and aids students to attain one of various FCC commercial or amateur licenses. Topics of study include electromagnetic waves, propagation, antennas, amplitude and frequency modulation. Emphasis is on the analysis of AM and FM radio receivers and transmitters, including methods of testing, alignment and adjustment. A study is made of radio laws and operating procedures.

**54 Computer Logic (4) CSU**

*Prerequisite: Electronics 20 and/or completion of Core I and II or consent of instructor. Concurrent enrollment in Electronics 22 is desirable.*

Lecture 3 hours; laboratory 3 hours.

An introduction to electronic computers is made. A brief treatment of programming, number systems and Boolean Algebra is presented. Analysis, design and utilization of principal computer circuits such as logic gates, flipflops and memory networks are presented. Design of binary counters and application of Boolean Algebra to perform binary arithmetic are presented. Laboratory work verifies logic circuit design and includes basic computer circuit breadboarding and analysis methods with fault location techniques.

**56 Computer Circuits (3) CSU**

*Prerequisite: Electronics 22 and/or completion of Core I and II or consent of instructor. Concurrent enrollment in Electronics 24 is desirable.*

Lecture 3 hours.

Detailed study of the function of digital computers and logic requirements is done along with instruction in logic tables and trees. An introduction to programming and numbering systems is presented. The laboratory includes the application and evaluation of the logic equations and requirements developed in lecture class. Microcomputers, CRT terminals and other hardware are utilized with high performance instrumentation to teach the standard fault location techniques in computer systems.

**57 Computer Circuits Laboratory (1) CSU**

*Prerequisite: Concurrent enrollment in Electronics 56.*

Laboratory 3 hours.

The laboratory provides evaluation of digital computer circuits through the use of computer trainers. Stored program concepts are covered using machine programming to develop software diagnostics. The analysis of fault location in computer circuits is also covered.

**60 Microwave Fundamentals (3)**

*Prerequisite: Coursework in linear circuits or consent of instructor.*

This course presents theory and application of the generation, control, and propagation of electromagnetic energy on the upper frequency ranges, along with modulation, techniques, transmission medium, oscillators, transmitters, and receivers.

**61 Microwave Fundamentals Laboratory (1)**

*Prerequisite: Concurrent enrollment in Electronics 60 or consent of instructor.*

This course provides practical, hands-on experience in theoretical areas covered in Electronics 60.

**Cooperative Work Experience Education**

Electronics is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**ENGINEERING, GENERAL****1 Introduction to Science, Engineering and Technology (2) UC:CSU**

This course is a series of lectures for all students in engineering and technology. The lec-

tures acquaint the students with the various branches of engineering and technology and with the employment opportunities in these branches. Professional engineers, specialists and technicians describe their work and the educational requirements of their respective fields.

**2 Introduction to Engineering Drafting (3) UC:CSU**

*Prerequisite: High school drafting, college drafting or General Engineering 52.*

Lecture 1 hour; laboratory 5 hours.

Intermediate level multi-view and pictorial drawings are covered. Emphasis is placed upon practical application to detail and assembly drawing. Sketching, auxiliary views and linear tolerancing are included.

**3 Engineering Drawing Systems (3) UC:CSU**

*Prerequisite: General Engineering 2.*

Lecture 1 hour; laboratory 5 hours.

This course consists of making a variety of engineering drawings typical in major fields of engineering. Technical sketching is emphasized. Various tables and handbooks and their uses are considered.

**4 Engineering Descriptive Geometry (3) UC:CSU**

*Prerequisite: General Engineering 2.*

Lecture 1 hour; laboratory 5 hours.

This course presents the fundamental principles of engineering descriptive geometry and their application to engineering problems; orthographic projection, including auxiliary views and oblique views; point, line and plane problems; and intersections and developments.

**7 Statics (3) UC:CSU**

*Prerequisite: Mathematics 261.*

Lecture 2 hours; laboratory 3 hours.

Force systems and equilibrium conditions are studied, with emphasis on engineering problems covering structures, machines, distributed forces and friction. This course is required of all engineering majors.

**52 Elementary Engineering Drafting (3)**

Lecture 1 hour; laboratory 5 hours.

Instruction is provided in the proper use and care of drawing instruments, in technical lettering, geometric construction, orthographic and pictorial views, sectional views, developments, fasteners and dimensioning.

**53 Technical Illustration I (3)**

*Prerequisite: General Engineering 52 or equivalent High School or College Drafting.*

Principles and techniques in isometric projection as they apply to technical publications, production illustration and illustration within engineering departments are covered. A basic study of exploded and cutaway views is included.

**54 Technical Illustration II (3)**

*Prerequisite: General Engineering 53.*

Lecture 1 hour; laboratory 5 hours.

This course deals with drawing principles and techniques in dimetric projection, trimetric projection and rotation, as they apply to technical publications, production illustration and illustration within engineering departments. Basic aerospace structures are also included.

**185 Directed Study - Engineering, General (1) UC:CSU****285 Directed Study - Engineering, General (2) UC:CSU****385 Directed Study - Engineering, General (3) UC:CSU**

*Prerequisite: Consent of instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in Engineering, General on a contract basis under the direction of a supervising instructor. *Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

**Cooperative Work Experience Education**

Engineering is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**ENGLISH****20 College Reading Skills (6)**

*Prerequisite: Appropriate score on English placement test.*

This course provides students with entry level opportunities to improve reading comprehension, critical thinking, vocabulary, and related skills necessary for success in college classes.

**21 English Fundamentals (3)**

*Prerequisite: Satisfactory performance on English placement exam or completion of English 47 with a grade of C or better.*

This course stresses instruction in writing for the student who needs to improve basic communication skills. The primary objective of the course is the mastery of the basic sentence and its variations. The term "mastery of the sentence" implies more than the ability to choose correct answers in exercise books; it implies competence at writing related clusters of sentences and simple paragraphs.

**22 Technical Writing (3)**

Technical English is designed for students in the business, industrial and technical fields. Instruction covers writing, reading and speaking. Emphasis is placed upon the writing of business and technical correspondence, procedures and a variety of reports; the summarizing of trade reports, technical reports and other technical data and the preparation and presentation of oral reports.

**23 Vocabulary Building (3) CSU**

*Prerequisite: Satisfactory score on English placement test or English 101.*

This beginning course in the technique of enlarging and enriching the individual's vocabulary looks toward a more adequate understanding and use of words. It includes the history of language and a survey of the varied elements which make up our individual vocabularies. The student is given an introduction to the laws of word formation, derivatives from Latin, Greek and Old English and the application of prefixes and suffixes to the roots of words. This course counts towards the graduation requirement of six units in Communications.

**28 Intermediate Reading and Composition (3)**

*Prerequisite: Completion of English 21 with a grade of C or better or satisfactory score on English placement test.*

English 28 is a composition course designed for two types of students: those who need additional help and preparation before continuing with English 1 and those who wish to improve their basic English skills in a terminal writing course. The primary stress in English 28 is on writing — short paragraphs at first, progressing by the end of the course to two or three full-length compositions, a total of ten to fifteen papers.

**30 Communications I: Understanding Literature (3)**

This course helps students increase their enjoyment and understanding of literature and provides instruction in sentence-writing techniques. Students analyze the reading selections for characterization, theme, plot, point of view and tone.

**31 Composition and Critical Reading (5)**

*Prerequisite: Successful completion of English 21, results of placement test, or consent of instructor.*

English 31 is a five unit five hour class, equivalent credit to English 28. The class focuses on academic reading and writing with particular emphasis on writing full length essays. Analytic reading techniques are taught using a variety of sources, including subject area textbooks, magazine, articles, essays, and a variety of literature. Students discuss and analyze these sources as basis for eight to ten full length papers and several short papers.

**33 Basic Vocabulary (3)**

This course familiarizes students with the wealth of information contained in dictionaries, and instructs them in their usage as a tool for communication. The student's vocabulary is increased through a systematic study of word structure, prefixes, suffixes and combining forms. The student becomes aware of the utility and beauty of language.

**35 Special Readings (3)**

This course is primarily concerned with selected readings and discussions of fictional and non-fictional literature. The material is chosen to broaden the students' interest in themselves as individuals and in their role as members of society. This course counts towards the graduation requirement of 6 units in communications.

**46 Reading and Study Improvement (3)**

*Prerequisite: Satisfactory score on English placement test or completion of English 47 with a grade of C or better.*

This course is designed to aid the student in increasing reading and study efficiency. Each student is assisted in analyzing reading skills and, by means of intensive practice with a variety of reading equipment, learns how to read more effectively for a variety of purposes: textbook reading, on-the-job reading tasks and other situations where rapid reading and high retention are desirable.

**47 Reading Clinic (3) RPT 1**

*Prerequisite: Appropriate score on English placement test and concurrent registration in Psychology 21. The two courses are the first in the basic skills program. One hour of additional practice is required in the Instructional Center.*

English 47 offers the student the opportunity to increase reading and study skills to college level. Emphasis is placed on sight vocabulary, reading comprehension, study techniques and specific weaknesses, as revealed by diagnostic tests.

**61 Reading and Writing: Personal Experience (3)**

*Prerequisite: Completion of English 21 with a grade of "C" or better or satisfactory score on the English placement test.*

This composition course is designed for three types of students: those who need additional help and preparation before continuing into English 101, those who wish to improve their basic English skills in a terminal writing course, and those who wish to learn the use of the personal journal for increased academic and professional success. Students write essays based on personal journal entries, starting with paragraphs and progressing to full-length essays.

**62 Reading and Writing: Contemporary Issues (3)**

*Prerequisite: Completion of English 21 with a grade of "C" or better or satisfactory score on the English placement test.*

Using current issues of newspapers and magazines, this course emphasizes skills in reading and writing compositions dealing with contemporary ideas and events. Writings include both paragraphs and essays requiring summary of articles, analysis of evidence, and expression of opinion.

**63 Reading and Writing: The Arts (3)**

*Prerequisite: Completion of English 21 with a grade of "C" or better or satisfactory score on the English placement test.*

Designed to encourage analytic newspaper reading with discriminating film and television viewing, this course provides practice in writing full-length expository essays.

**64 Reading and Writing: Basic Skills (3) RPT 1**

This course provides individual diagnosis and instruction in: reading comprehension skills, grammar and punctuation emphasizing the reading and writing of sentences, phonics for spelling and comprehension improvement. Students who have completed any other English course may elect to take English 64 to reinforce the skills.

**65 Reading and Writing: Fiction (3)**

*Prerequisite: Completion of English 21 with a grade of "C" or better or satisfactory score on the English Placement test.*

Lecture 3 hours.

In this course students read and discuss short stories, novels, plays, and screenplays to sharpen critical thinking, increase literary awareness, and provide material for expository writing assignments.

**66 Reading and Writing: Fantasy and Myth (3)**

*Prerequisite: Completion of English 21 with a grade of "C" or better or satisfactory score on the English placement test.*

This course explores many types of "far-out" literature, including fantasy, folk tales, science fiction, and myth. Readings range from the classics to contemporary works. Instruction will be given in expository essays.

**67 Writing Laboratory (.5)**

*Prerequisite: None.*

Laboratory: 1 hour.

This course is designed to improve the student's writing abilities by providing supervised instruction. English 67 emphasizes individual conferences and completion of specific assignments based on personal needs and skills required in both English and other college courses.

**82 Introduction to College English as a Second Language (3)**

*Prerequisite: Satisfactory performance on ESL/English Placement Exam.*

Intended for students whose native tongue is not English, this course will introduce students to English pronunciation patterns, sentence patterns, basic reading, and communication skills. It will emphasize reading improvement for comprehension, developing a sight vocabulary and learning word-attack skills.

**83 Conversational College English as a Second Language (3)**

*Prerequisite: Appropriate test score.*

Lecture 3 hours.

Intended for students whose mother tongue is not English. Emphasizes basic language acquisition skills, including intonation patterns, American idioms, sentence patterns, grammar as check for language correctness. Also included are listening skills, reading for vocabulary and comprehension, and guided writing.

**84 College English as a Second Language I (5)**

*Prerequisite: Appropriate test score.*

Lecture 5 hours.

Intended for students whose mother tongue is not English. An intensive multi-skills course emphasizing basic aspects of English grammar, punctuation, spelling, sentence structure. Includes speaking and listening skills, reading for vocabulary and comprehension, and guided writing.

**85 College English as a Second Language II (5) UC:CSU**

*Prerequisite: Appropriate test score or completion of English 84.*

Lecture 5 hours.

For students whose mother tongue is not English. Includes drill in the construction of sentences and their word order, grammar, idioms, punctuation, capitalization, vocabulary, and spelling. Also includes reading for comprehension and practice in paragraph writing.

**86 College English as a Second Language III (5) UC:CSU**

*Prerequisite: Appropriate test score or completion of English 85 with a grade of "C" or better.*

Lecture 5 hours.

For students whose mother tongue is not English. Continues to work on the fundamentals of English as a second language. Places emphasis on writing, syntax, and reading.

**87 Advanced English as a Second Language: Reading and Vocabulary (3) CSU**

*Prerequisite: Appropriate test score, or completion of English 86 with grade of "C" or better.*

Lecture 3 hours.

A reading skills course designed for advanced ESL students. Includes reading for comprehension, skimming, scanning techniques, as well as exercises in critical reading and non-prose reading. Will improve vocabulary through various word study exercises.

**101 College Reading and Composition I (3) UC:CSU**

*(Formerly English 1)*

*Prerequisite: Satisfactory score on placement test or completion of English 28 with a grade of C or better.*

This course develops skills in writing essays and in reading nonfiction materials critically. The prerequisite to these techniques is an understanding of the elements of punctuation, sentence structure, spelling and paragraph development.

*Acceptable for English 203 credit, UCLA.*

**102 College Reading and Composition II (3) UC:CSU**

*(Formerly English 2)*

*Prerequisite: English 101 with a grade of C or better.*

This course extends the reading and writing skills obtained in English 101. Critical reading and interpretation of literary works in the genres of the novel, the short story, the play and the poem are emphasized. Students are required to write critical essays about these literary forms.

*Acceptable for English 204 credit, UCLA.*

**127 Creative Writing (3) UC:CSU RPT 2**

*(Formerly English 27)*

*Prerequisite: English 101 or equivalent.*

English 27 deals with the writing of poetry, fiction and drama by introducing the student to the basic elements of each genre through reading and writing assignments. Class discussion of student writing is an important part of the course.

**203 World Literature I (3) UC:CSU**

*(Formerly English 3)*

*Prerequisite: English 101.*

This survey of world literature in translation begins with works of the Near and Far East, continues with the Greek epic and drama, follows with Latin and Italian literature and closes with major writings from Spain, France and Germany through the sixteenth century. Critical papers are required.

*Acceptable for Humanities 1A credit, UCLA.*

**204 World Literature II (3) UC:CSU**

*(Formerly English 4)*

*Prerequisite: English 101.*

This course surveys continental and oriental literature which has been translated, from the seventeenth century to the present and emphasizes works from France, Germany, Scandinavia, Russia, Japan and China. Critical papers are required.

*Acceptable for Humanities 1B credit, UCLA.*

**205 English Literature I (3) UC:CSU**

*(Formerly English 5)*

*Prerequisite: English 102 or consent of instructor.*

This survey of English literature begins with Beowulf and continues to the decline of neoclassicism in the 18th century, with special emphasis on the major figures and works. The writing of critical papers is required.

*Acceptable for English 10A credit, UCLA.*

**206 English Literature II (3) UC:CSU**

*(Formerly English 6)*

*Prerequisite: English 102.*

This survey of English literature includes writings from the Romantic Age to the English writers of the present. The writing of critical papers is required.

*English 205, 206 acceptable for English 10 ABC credit, UCLA.*

**207 American Literature I (3)****UC:CSU***(Formerly English 7)**Prerequisite: English 101.*

This survey of American literature, from the earliest period through the Civil War, includes major literary works which express the social and political concerns of a pluralistic society. The writing of critical papers is required.

**208 American Literature II (3)****UC:CSU***(Formerly English 8)**Prerequisite: English 101.*

This survey of the United States' literature, from the Civil War to the present, places special emphasis upon those writers who significantly treat the social, political and philosophical problems of the period. The writing of critical papers is required.

**211 Fiction (3) UC:CSU***(Formerly English 11)**Prerequisite: English 101.*

A discussion of selected great novels and short stories from French, German, Russian, English and American literature is conducted. The writing of critical papers is required.

**212 Poetry (3) UC:CSU***(Formerly English 12)**Prerequisite: English 101. (English 102 recommended but not required.)*

Lecture 3 hours.

Emphasizes reading, discussion and analysis of selected poems. Designed to increase the student's understanding and appreciation of all forms of poetry.

**213 Dramatic Literature (3)****UC:CSU***(Formerly English 13)**Prerequisite: English 101.*

An historical survey of dramatic literature is made, with emphasis on the works of major playwrights, such as Sophocles, Shakespeare, Moliere, Shaw, Ibsen, O'Neill and Williams. The writing of critical papers is required.

**214 Contemporary Literature (3)****UC:CSU***(Formerly English 14)**Prerequisite: English 101.*

This course concentrates on significant American and British literature since 1900. Some attention is paid to historical, social and cultural influences on this literature. The writing of critical papers is required.

**215 Shakespeare I (3) UC:CSU***(Formerly English 15)**Prerequisite: English 101.*

Poems and plays selected from the works of Shakespeare are studied. Some attention is paid to the background of his times and to the Renaissance theater. The writing of critical papers is required.

*Acceptable for English 90 credit UCLA.***218 Children's Literature (3)****UC:CSU***(Formerly English 18)**Prerequisite: English 101.*

This course is a survey of the literature suitable

for children of different age levels and is recommended for prospective nursery, kindergarten and elementary teachers. Parents will also find the course material helpful in discovering what reading material is available for a child's home library.

**219 The Literature of American Ethnic Groups (3) UC:CSU***(Formerly English 219)**Prerequisite: English 28 or equivalent.*

This course considers noteworthy fiction and other literature arising from the traditions and contemporary problems of several ethnic groups, each of which offers a unique contribution to American life.

**240 Literature and the Motion Picture I (3) UC:CSU***(Formerly English 40)**Prerequisite: English 28 or equivalent.*

Lecture 3 hours.

This course is designed to develop skills in analyzing and evaluating the comparative arts of literature and the motion picture. The student will be given the opportunity to view feature length films of cultural and artistic significance and read related works of literature including novels, short stories, plays, and film scripts.

**185 Directed Study - English (1)****UC:CSU****285 Directed Study - English (2)****UC:CSU****385 Directed Study - English (3)****UC:CSU***Prerequisite: A grade of C or better in English 101 and/or consent of instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in English on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.***ENVIRONMENTAL SCIENCE****1 The Human Environment: Physical Processes (3) UC:CSU**

This introductory course discusses the effects of humans on their physical environment. Particular emphasis is placed upon modifications of physical processes due to industrialization and urbanization. Energy and pollution are stressed. Topics include energy sources and the environment, air pollution, climatic change, solid waste and water pollution as well as topics of current interest.

**2 The Human Environment: Biological Process (3) UC:CSU**

A study of the interactions of humans and their environment, this course covers the problems of population, pollution, food production and consumption and energy flow from the biological view point.

**FAMILY AND CONSUMER STUDIES****1 Career Opportunities (2) CSU**

Lecture 2 hours.

This is an introductory course in Family and Consumer Studies with emphasis on employment in the field, general consumer education and personal development.

**2 Consumer Studies and Management (3) CSU**

Lecture 3 hours.

This course is designed to improve quality of life by emphasizing definition and clarification of values and goals and stressing the decision-making process. Knowledge of economics and environmental factors which affect everyday life is emphasized. The art of being a consumer is studied, as well as the understanding of the use of life's major resources: time, money and energy — all to improve contemporary living.

**20 Contemporary Nutrition (3) CSU**

Lecture 3 hours.

This is a nontechnical course designed to inform the student of the importance of nutrition and to apply this knowledge in establishing good eating habits. It provides the student with experience with meal planning, food selection, preparations, and understanding food labels.

**21 Nutrition (3) UC:CSU**

Lecture 3 hours.

This basic survey course is important to all those interested in nutrition. The fundamentals of nutrition which affect human growth and health maintenance, including weight control and dietary requirements, throughout the life cycle are studied. Food compositions and the nutritional aspects of food preparation are explored.

**Cooperative Work Experience Education**

Family and Consumer Studies is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**FINANCE****2 Investments (3) CSU**

The principles of investment, the various types of investments, the operations of investment markets and sources of information are covered.

**8 Personal Finance and Investments (3) CSU**

This course includes lectures, discussions and practice in applying the principles of accounting, banking, finance office methods, management, production and merchandising to one's personal affairs. Family budgeting, consumer credit, home ownership, life and property insurance, investment and savings plans, social security and retirement plans and personal record keeping are stressed.

## Cooperative Work Experience Education

Finance is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

## FIRE SCIENCE

### 1 Introduction to Fire Protection (3) CSU

An introduction to the fire service and fire protection, career opportunities in fire protection and related fields; history of fire protection; fire loss analysis; public, quasi-public and private fire protection services; specific fire protection functions; fire chemistry and physics are considered.

### 2 Fire Company Organization and Procedure (3) CSU

*Prerequisite: Fire Science 1, concurrent enrollment in Fire Science 1, employment as a fire fighter or approval of instructor.*

This course in practical application of records, reports and company training covers the history and authority of the fire company; equipment and building maintenance; work organization, discipline and morale.

### 3 Hazardous Materials I (3) CSU

This course covers the basic fundamentals of chemistry used in fire service; types of chemicals and processes and laws at federal, state and local levels pertaining to use, storage and transportation of chemicals.

### 5 Related Codes and Ordinances (3) CSU

Lecture 3 hours.

Instruction is given in national, state and local ordinances which are applicable to the fire service; electrical, plumbing and building codes; the Health and Safety Code; the functions of the State Fire Marshall and inter-governmental coordination and relations.

### 6 Fundamentals of Fire Prevention (3) CSU

*Prerequisite: Fire Science 1 or concurrent enrollment in Fire Science 1, employment as a fire fighter or approval of instructor.*

This course covers fundamentals of fire prevention; techniques, procedures, regulations and enforcement; discussion of hazards in ordinary and special occupancies, supplemented by field trips and lectures from industry and organization and functions of the Fire Prevention Bureau.

### 9 Fire Fighting Tactics and Strategy I (3) CSU

Lecture 3 hours.

Instruction is given in the art of using manpower, equipment and apparatus on the fire ground. Practical method of how to attach, control and extinguish structural, watershed, waterfront, oil and other types of fires are emphasized. Field exercises are included.

### 13 Fire Investigation (3) CSU

Lecture 3 hours.

Methods of determining point of fire origin, path of fire travel and fire causes, recognizing and preserving evidence, interviewing witnesses, arson laws and types of arson fires, court testimony and reports and records are topics studied in this course.

### 14 Rescue Practices I (3) CSU

Lecture 3 hours.

Instruction is given in life-saving practices pertaining to the fire company. Training for rescuer squads, the use of rescue equipment, the fire department's role in civil defense and other disaster acts are covered. Chemicals and diseases that affect breathing are considered as well as California law on first aid and the uses of breathing apparatus.

### 19 Fire Technology (3)

*Prerequisite: Emergency Medical Technician 1 Non-Ambulance. Potential for or current employment in occupations involved with emergency field medicine.*

This course provides a foundation in emergency medical procedures as specified by the California State Board of Fire Services. Emphasis is placed on the field application of emergency pre-hospital care and the role of the Emergency Medical Tech/Fire Services. An EMT/Fire Service certificate is granted only to individuals who satisfactorily complete all physical skill proficiency requirements.

### 21 Fire Protection Equipment and Systems (3) CSU

Lecture 3 hours.

The course includes a study of portable fire extinguishing equipment, sprinkler systems for special hazards and fire alarm and detection systems.

## FOREIGN TRADE

(See Transportation 8)

## FRENCH

### 1 Elementary French I (5) UC:CSU

This course stresses the fundamentals of pronunciation and grammar, practical vocabulary, useful phrases and the ability to understand, read, write and speak simple French. Extensive use is made of films, slides and tapes to convey the language, culture and customs of France. Same as French 21 with French 22; or French 51 with French 61.

*Acceptable for French 1, credit UCLA. French 1-2 together are equivalent to French 1, 2, 3 credit at UCLA.*

### 2 Elementary French II (5) UC:CSU

*Prerequisite: French 1 with a grade of C or better, two years of high school French or equivalent.*

This course completes the basic grammar of the French language. Films and filmstrips are employed to improve comprehension, enrich vocabulary and to serve as topics for oral discussion and written composition. Same as French 52 with French 62.

*Acceptable for French 3, credit UCLA. French*

*1-2 together are equivalent to French 1, 2, 3 credit at UCLA.*

### 3 Intermediate French I (5) UC:CSU

*Prerequisite: French 2 with a grade of C or better or three years of high school French.*

This course provides a review of the fine points of grammar and seeks to perfect fluency, comprehension and cultural knowledge through dramatic films, short novels, poetry, plays, music and magazines. Same as French 53 with French 63.

*Acceptable for French 4, credit UCLA.*

### 4 Intermediate French II (5) UC:CSU

*Prerequisite: French 3 or four years of high school French.*

This course continues to refine speaking, reading and writing comprehension skills through the literary and visual media. Same as French 54 with French 64.

*Acceptable for French 5, credit UCLA.*

### 5 Advanced French I (5) UC:CSU

*Prerequisite: French 4.*

This course continues the study of advanced composition and grammar through literature, film and music. The readings are the basis for regular composition work and student discussion in French.

### 6 Advanced French II (5) UC:CSU

*Prerequisite: French 5.*

This course completes the study of advanced composition and grammar through literature, film, and music. The readings are the basis for regular composition work and student discussion in French.

### 8 Conversational French (2) UC:CSU RPT 3

*Prerequisite: French 2 or equivalent with a grade of C or better or consent of instructor.*

This course helps students develop the ability to express themselves fluently, idiomatically and correctly in French. Conversational material is selected from magazines, newspapers and selected books.

*Acceptable for credit, French 10 ABCD, UCLA for a maximum of 8 units.*

### 10 French Civilization (3) UC:CSU

This course consists of lectures and discussions in English on the geography, history, government and institutions of France; the life and customs of its people; its literature, arts and sciences and its contributions to civilization. It is especially recommended to all students of French. Same as History 22.

### 21 Fundamentals of French I (3) UC:CSU

Lecture 2 hours; laboratory 1 hour.

This course stresses the speaking, reading and writing of simple French. The student is introduced to basic conversational patterns and to the systematic study of practical grammar.

*French 21 and French 22 together are equivalent to French 1, credit UCLA.*

## 22 Fundamentals of French II (3) UC:CSU

*Prerequisite: French 21 or equivalent.*  
Lecture 2 hours; laboratory 1 hour.  
This course is a continuation of French 21.  
*French 21 and French 22 together are equivalent to French 1, credit UCLA.*

## 101 French Language Lab (1)

A mediated, independent study course which allows students to enhance their French language skills through audio, video, and computer work in the language lab.

## 185 Directed Study - French (1) UC:CSU

## 285 Directed Study - French (2) UC:CSU

## 385 Directed Study - French (3) UC:CSU

*Prerequisite: Consent of instructor.*  
Conference 1 hour per unit.  
Allows students to pursue Directed Study in French on a contract basis under the direction of a supervising instructor.  
*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

## GEOGRAPHY

### 1 Physical Geography (3) UC:CSU

A systematic study of the elements of the physical environment (e.g. weather, climate, landforms, water, soil and vegetation) and an analysis of their interrelationships and patterns of world distribution are considered.  
*Acceptable for Geography 1 credit, UCLA.*

### 2 Cultural Elements of Geography (3) UC:CSU

*Geography 1 is not a prerequisite for Geography 2.*

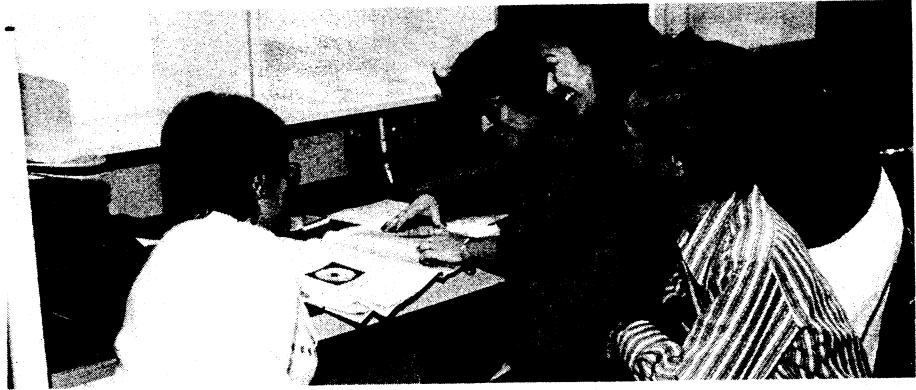
The cultural elements of geography and their correlation with the physical environment are introduced. Population patterns, cultural diversity, livelihood, settlement, environmental modification and perception are emphasized.  
*Acceptable for Geography 3 credit, UCLA.*

### 3 Introduction to Weather and Climate (3) UC:CSU

Atmospheric elements and controls, storms, human modification and the regional distribution of climates are studied.  
*Acceptable for Atmospheric Science 3 credit, UCLA. Same as Meteorology 3.*

### 7 World Regional Geography (3) UC:CSU

This introductory course provides information about the major regions of the world including their occupancy and modification by man. It is especially recommended for teaching majors and anyone desiring a general understanding of contemporary world conditions.



## GEOLOGY

### 1 Physical Geology (3) UC:CSU

This course surveys the materials and structures of the earth and the agents and processes which modify it. A study of rocks and their mineral composition; the work of rivers, winds, glaciers and oceans as agents of erosion; and volcanoes and earthquakes as forces which change the surface of the earth are covered. The main purpose of the class is to stimulate student interest in the geological aspects of the environment in which they will spend their lives.  
*Acceptable for Earth and Space Science 1, credit UCLA.*

### 2 Earth History (3) UC:CSU

*(Formerly Historical Geology)*  
*Prerequisite: Geology 1 or consent of instructor.*

Principles of interpretation of earth history are covered. The evolution of continents, oceans, mountain systems and other features of the earth and the development and evolution of life are dealt with. North American geology is stressed.  
*Acceptable for Earth and Space Science 2, credit UCLA.*

### 6 Physical Geology Laboratory (2) UC:CSU

*Prerequisite: Geology 1 or concurrent enrollment in Geology 1.*

Laboratory 3 hours.

This course deals with laboratory exercises which aid students in the identification of rock-forming minerals, igneous, metamorphic and sedimentary rocks and the interpretation of topographic and geologic maps.  
*Acceptable for Earth & Space Science 1L, credit UCLA.*

### 7 Earth History Laboratory (2) UC:CSU

*Prerequisite: Geology 2 or concurrent enrollment in Geology 2, Geology 6 or consent of instructor.*

Laboratory 3 hours.

This course deals with laboratory exercises which aid students in the identification of fossils and the use of fundamental principles of historical geology in solving practical geological problems. Field trips are held during class time.  
*Acceptable for Earth & Space Science 2L, credit UCLA.*

### 185 Directed Study - Geology (1) UC:CSU

### 285 Directed Study - Geology (2) UC:CSU

### 385 Directed Study - Geology (3) UC:CSU

*Prerequisite: Consent of instructor.*  
Conference 1 hour per unit.  
Allows students to pursue Directed Study in Geology on a contract basis under the direction of a supervising instructor.  
*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

## HEALTH

### 2 Fitness and Health (3) UC:CSU

Lecture 2 hours; laboratory 2 hours.  
This course surveys issues that particularly affect physical fitness and health. Laboratory activities develop an understanding of activities that promote lifelong fitness.

### 9 Health for the Mature Individual (3) CSU

This course is designed to meet the personal needs and interests of the mature, older student in the area of protection, preservation and prolongation of physical and emotional health during the later years of life. Emphasis is placed upon those personal methods and public institutional services which can promote greater freedom from the discomforts and anxieties associated with aging. This course does not duplicate Health 10 and meets the graduation requirements.  
*Maximum 1 course from 9 and 10, UC campuses.*

### 10 Health Education (2) UC:CSU

*(Not an activity class.)*  
Each student is given the opportunity to develop a scientific understanding of personal and community health and to form basic principles of healthful living. No credit is given for students who have completed Health 11. The class fulfills State requirements in health education for all students.  
*Maximum 1 course from 9 and 10, UC campuses.*

### 12 Safety Education and First Aid (3) UC:CSU

The prevention of accidents, care of common injuries and emergency procedures at the scene of accidents are dealt with. This course meets the certification requirements of both the standard and advanced first aid courses offered by the American Red Cross.

## HEBREW

### 1 Elementary Hebrew I (5) UC:CSU

Fundamentals of the language, the essentials of grammar, practical vocabulary, useful phrases and the ability to understand, read, write and speak simple Hebrew are stressed. Emphasis is placed upon the spoken language.

*Acceptable for Near East Language 1A, credit UCLA.*

### 21 Fundamentals of Hebrew I (3) UC:CSU

This course introduces the fundamentals of pronunciation and grammatical structure.

*Hebrew 21 and Hebrew 22 together are equivalent to Hebrew I. 21 and 22 are acceptable for Near East Language 1A, credit UCLA.*

### 22 Fundamentals of Hebrew II (3) UC:CSU

*Prerequisite: Hebrew 21.*

This course completes the elementary grammar of Hebrew.

*Hebrew 21 and Hebrew 22 together are equivalent to Hebrew I. 21 and 22 are acceptable for Near East Language 1A, credit UCLA.*

### 23 Fundamentals of Hebrew III (3) UC:CSU

*Prerequisite: Hebrew 1 or Hebrew 22.*

This course constitutes the first half of Hebrew 2. It continues to develop the fundamentals of Hebrew grammar as applied to the conversational and written idiom. Readings of cultural materials serve to reinforce both aspects of language learning.

*Hebrew 23 and 24 together are equivalent to Hebrew II. 23 and 24 are acceptable for Near East Language 1C, credit UCLA.*

### 24 Fundamentals of Hebrew IV (3) UC:CSU

*Prerequisite: Hebrew 1 and Hebrew 23 or equivalent.*

This course constitutes the second half of Hebrew 2. It continues to develop the fundamentals of Hebrew grammar as applied to the conversational and written idiom. Readings of cultural materials will serve to reinforce both aspects of language learning.

*Note: Hebrew 23 and Hebrew 24 together are equivalent to Hebrew II. 23 and 24 are acceptable for Near East Language 1C, credit UCLA.*

## HISTORY

### 1 Introduction to Western Civilization I (3) UC:CSU

This course provides a broad historical study of the main cultural, economic and political trends and events, from the rise of civilization in the Near East to the Age of Absolutism.

*Acceptable for History 1A credit, UCLA. History 1 with 2 acceptable for History 1ABC credit, UCLA.*

### 2 Introduction to Western Civilization II (3) UC:CSU

This course surveys western civilization from the intellectual and revolutionary ferment of the

seventeenth century to contemporary times. Attention is given to the philosophical writers whose ideas have had the greatest impact on American political and cultural institutions. *Acceptable for History 1C credit, UCLA. History 1 with 2 acceptable for History 1ABC credit, UCLA.*

### 3 History of England and Great Britain I (3) UC:CSU

The political, economic and cultural development of the British Isles and the Empire from the earliest times to the eve of the American Revolution is covered.

### 4 History of England and Great Britain II (3) UC:CSU

This course deals with the history of Great Britain from the American Revolution to the present. It particularly directs the American student to a study of British political and cultural forces that have shaped relevant institutions in the United States.

### 11 Political and Social History of the United States I (3) UC:CSU

The political, social, economic and constitutional history of the United States from the colonial settlements through the Civil War is surveyed.

*Credit not granted for History 11 if credit is obtained for History 14, 16 or 41.*

*NOTE: One course maximum from 11, 14, 16, 33 and 41 transferable to UC. One course maximum from 12, 13, 16 and 42 transferable to UC. Acceptable for History 7A credit UCLA.*

### 12 Political and Social History of the United States II (3) UC:CSU

The political, social, economic and cultural history of the United States from the Reconstruction to the present is surveyed.

*Credit not granted for History 12 if credit is obtained for History 13, 16 or 42. See NOTE History 11. Acceptable for History 7B credit UCLA.*

### 13 The United States in the Twentieth Century (3) UC:CSU

The major political, economic, intellectual and cultural movements and events of the twentieth century are surveyed.

*Credit not granted for History 13 if credit is obtained for History 16 or 42.*

*See NOTE: History 11. Acceptable for History 7B credit UCLA.*

### 14 Selected Issues of United States History (3) UC:CSU

The basic issues in the history of the United States, including a study of the philosophy underlying the Declaration of Independence and the Constitution, the conflicting viewpoints of Hamilton and Jefferson, the causes of the Civil War, the impact of the Industrial Revolution, an evaluation of the Progressive Movement and the New Deal and the significance of America's emergence as a world power are discussed critically.

*Credit not granted for History 14 if credit is obtained for History 11, 16, 33 or 41.*

*See NOTE: History 11.*

### 15 Economic History of the United States (3) UC:CSU

*Same as Economics 10.*

*Acceptable for Economics 10 credit UCLA.*

### 16 History of the Afro-American (3) UC:CSU

A survey of Afro-American history from the colonial period to the present is conducted.

*Credit not granted for History 16 if credit is obtained for History 11, 12, 13, 14, 41 or 42.*

*See NOTE: History 11.*

### 20 History of California and the Pacific Coast (3) UC:CSU

A general survey of the History of the Pacific Coast of North America from the period of the explorations to the present.

### 22 French Civilization (3) UC:CSU

*Same as French 10.*

### 23 Latin American Civilization (3) UC:CSU

*Same as Spanish 10.*

### 29 Asian Civilization: The Middle East (3) UC:CSU

This course is an introductory survey of the principal social, cultural and political institutions of the Middle East.

### 41 The Afro-American in the History of the United States I (3) UC:CSU

This course provides a survey of U.S. History from early Colonial Era through the Civil War, with special emphasis on the contribution of the Afro-American. It provides a background in the political and social development of the United States for students majoring in the Social Sciences and for those who wish to gain a better understanding of the Afro-American in American civilization.

*Credit not granted for History 41 if credit is obtained in History 11, 14, 16, or 33.*

*See NOTE: History 11.*

*Acceptable for History 7A credit UCLA.*

### 42 The Afro-American in the History of the United States II (3) UC:CSU

A survey of U.S. History from the end of the Civil War to the present time, this course provides information about the Afro-American's part in the social and political development of American Civilization.

*Credit not granted for History 42 if credit is obtained in History 12, 113 or 16.*

*See NOTE: History 11.*

*Acceptable for History 7B credit UCLA.*

### 68 Introduction to the Pacific Rim (3) UC:CSU

An introduction to the history and culture of the nations of the Pacific Rim in Eastern Asia. This course is designed to introduce Pacific Rim cultures and history as the basis for planned new programs in International Trade and Cultures.

### 185 Directed Study - History (1) UC:CSU

### 285 Directed Study - History (2) UC:CSU

### 385 Directed Study - History (3) UC:CSU

*Prerequisite: Consent of instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in History on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

## HUMANITIES

### 1 Cultural Patterns of Western Man (3) UC:CSU

This course is designed to introduce the student to the general concepts or principles of the humanities as evidenced in the ideas of applied aesthetics. Music, literature, painting, sculpture, architecture and other art forms are studied in relation to their background, function, medium, organization and style.

### 2 Studies in Selected Cultures (3) UC:CSU RPT 1

This course provides an in-depth study of various selected areas and cultures of the world. Historical background, key personalities, contributions and significance of the various arts are presented. Students should check in the schedule of classes each semester for countries, areas or cultures to be studied.

### 5 Interdisciplinary Studies in the Liberal Arts (3) UC:CSU

This course provides an opportunity for an interdisciplinary study of a particular historical era, its leading themes and definitive issues, or it provides an opportunity for an interdisciplinary study of one or more of the timeless themes of humankind. Art, music, literature, philosophy and science of the age are stressed. The specific age or themes will be announced in the Schedule of Classes.

### 30 The Beginnings of Civilization (3) UC:CSU

This survey of the cultural heritage of western civilization from ancient Greece to the 17th century presents a history of ideas through emphasis on philosophical, religious, artistic, and literary traditions, using a wide variety of visual materials.

### 31 Man in Contemporary Society (3) UC:CSU

Presenting a history of ideas, this course surveys the cultural heritage of western civilization from the 17th century to the present, including



philosophical, religious, artistic, and literary traditions, as it analyzes the changing relationship with varied visual materials.

### 60 Man and His World: Technology and the Humanities (3) UC:CSU

*Prerequisite: English 28 recommended.*

This course provides opportunities to examine the interaction between society and technology. Challenging and stimulating questions about cultural and social values in light of the effects of modern technology are developed and discussed.

### 61 Man and His World: The Creative Process (3) UC:CSU

*Prerequisite: English 28 recommended.*

This course focuses on the creative processes. A survey of creativity as expressed through art, architecture, literature, music, dance and drama is undertaken. Philosophical, psychological and historical approaches are incorporated.

### 72 The Art of Being Human (3) UC:CSU

This course provides a modularized introduction to the humanities as an approach to living. Each unit of study represents a major theme, such as humanism itself, esthetics, myth, Eastern consciousness, morality, love and death.

### 73 Humanities through the Arts (3) UC:CSU

Through film, drama, music, literature, painting, sculpture and architecture this course surveys the humanities; emphasizing the history, technique, meaning and evaluation of individual works of western art.

### 185 Directed Study - Humanities (1) UC:CSU

### 285 Directed Study - Humanities (2) UC:CSU

### 385 Directed Study - Humanities (3) UC:CSU

*Prerequisite: Completion of one humanities course with a grade of B or better and consent of instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in Humanities on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

## JOURNALISM

### 1 Collecting and Writing News (3) CSU

*Prerequisite: Eligibility for English 28.*

This introductory course stresses instruction and practice in news gathering and news writing. Extensive practical writing experience is geared to the campus newspaper. It also includes a study of newspaper, radio and television news. Adherence to professional writing style and legal and ethical aspects of the profession are covered.

*Acceptable for credit, 6 units maximum from Journalism 1, 2, 16 and 18, UC campuses.*

### 2 Advanced Newswriting (3) UC:CSU

*Prerequisite: Journalism 1 with a grade of C or better.*

This course provides students with principles and practice in writing specialized types of newspaper stories and increases their mastery of fundamental reporting techniques. Interpretative writing skills, editorial writing and feature writing are included.

*Acceptable for credit: 6 units maximum from Journalism 1, 2, 16 and 18, UC Campuses.*

### 4 Feature and Editorial Writing (3) CSU RPT 1

This course emphasizes research for and creativity in the writing of features, editorials and articles for newspapers, magazines and other professional publications. Students study the needs of individual publications and gain experience in writing to meet those demands.

### 5 Mass Communication (3) UC:CSU RPT 1

This course is a survey and evaluation of the mass media. Special attention is given to newspapers, magazines, radio, TV, motion pictures, public relations and advertising, as well as to their impact on society and the individual. Career opportunities in the fields are discussed.



**8 Article Writing (3) CSU RPT 2**

This course offers instruction in the writing of material for a magazine, including articles, editorials or reviews suitable for publication as well as practice in editing and in the use of illustrative materials.

**16 Copyreading and Headline Writing (3) CSU**

*Prerequisite: Journalism 1 or permission of instructor.*

Lecture 1 hour; laboratory 2 hours.

Rules, principles and techniques of editing copy, rewriting, headline writing, make-up, correcting proof and other details of editing, with practical work on the desk of the College newspaper, are included.

*Acceptable for credit: 6 units maximum from Journalism 1, 2, 16 and 18, UC Campuses.*

**17 Publication Laboratory (2) CSU RPT 3**

*Prerequisites: Journalism 1 or consent of instructor.*

This course stresses constructive criticism of students' writing styles and news evaluation. Publication production plans are developed. The instruction is directed by the campus newspaper adviser, editor and staff members.

**18 Practical Editing (3) CSU RPT 3**

*Prerequisites: Journalism 1 or consent of instructor.*

This course provides practical instruction and practice in writing and editing the campus newspaper. Editions are evaluated in regularly scheduled class meetings.

*Acceptable for credit, UCLA: 6 units maximum from Journalism 1, 2, 16 and 18.*

**20 Magazine Editing (3) CSU RPT 3**

This course presents a study of the theory and practice of writing and editing such printed material as magazines, literary publications, yearbooks, handbooks, brochures and catalogs. Artistic design, principles of harmony and unity and creativity in layout are stressed. Writing and editing copy; designing pages; selecting photographs, illustrations and design materials and preparing them for production; arranging production schedules; and other aspects of publishing are included.

**43 Public Relations Techniques (3) CSU RPT 1**

This course is a comprehensive study of the various public relations techniques which are utilized in campaigns by businesses, educational institutions, public agencies and other organizations. Case histories are used to stimulate student initiative in problem-solving. The social impact of the various communications media and their role in public relations are also stressed.

**LAW****1 Business Law I (3) UC:CSU**

*(Same as Business 5).*

Essentials of the law of contracts, in its application to everyday problems pertaining to business and to the individual, are covered.

Elementary safeguards regarding sales and sales contracts are also considered. Case discussion and lecture method are utilized. Credit is not granted for students enrolled in or with credit in Business 5.

*Acceptable for credit, UCLA maximum one course from Law 1, 2 or 30 and Business 8, UC campuses.*

**2 Business Law II (3) UC:CSU**

This course covers essentials of the law of negotiable instruments, security devices, partnerships, corporations, estates and bankruptcy in their application to everyday problems of business.

*Acceptable for credit, maximum one course from Law 1, 2 or 30 and Business 8, UC campuses.*

**Cooperative Work Experience Education**

Law is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**LEARNING SKILLS****1 Learning Skills — Reading (3)**

*Prerequisite: No prerequisite;*

*Corequisite: Enrollment in one or more college course.*

Laboratory 6 hours.

A self-paced program intended for all students having difficulty with their college reading, assignments. Course features diagnostic testing, individual attention and instant feedback about students' progress toward prescribed goals. (This 3-unit course modularized into three 1-unit modules.)

**LIBRARY/MEDIA TECHNOLOGY****15 Library Research Methods (1) UC:CSU**

Lecture 1 hour.

This course teaches the student how to make independent use of library resources for maximum educational and life-long personal benefit. Standard research techniques are emphasized and specialized information sources are examined. Students learn how to find information efficiently.

**LINGUISTICS****1 Introduction to Language and Linguistics (3) UC:CSU**

Principles of both structural and historical linguistics and their application to language use, language learning and language teaching are considered.

**MANAGEMENT**

*(See Business also)*

**1 Principles of Management (3) CSU**

*Prerequisite: Business 1 or equivalent and consent of instructor.*

This course provides an introduction to the principles of management. Detailed analysis of basic managerial functions including planning, organizing, staffing, directing and controlling in a business or administrative environment is made.

**2 Organization and Management Theory (3) CSU**

*Prerequisite: Business 1 or equivalent and consent of instructor.*

This course provides an introduction to the theories of organization and management. Organizational structure, technology and systems; administrative behavior; communications; motivation and leadership and organizational change and manpower development including organizational development, are examined.

**6 Public Relations (3) CSU RPT 1**

This course covers the basic concepts and fundamentals involved in the organization of a public relations program. Community relations, customer relations, stockholder relations, press relations, public relations and special group relations are emphasized.

**11 Management Practice (3) CSU**

*Prerequisite: Completion of all program requirements or consent of instructor; course to be taken in student's last semester.*

This course is designed to be taken in the management student's final semester. It offers a simulated real world environment in which the student integrates knowledge from all business disciplines and engages in a decision-making game.

*Offered only Spring of odd-numbered years.*

**13 Small Business Management I (3) CSU**

*Prerequisites: Business 1 and Management 1.*

This course teaches the student how to organize and operate a small business.

**15 Small Business Management II (3) CSU**

*Prerequisites: Management 1 and 13 or consent of instructor.*

This course focuses on problems confronting the small business firm and explores potential ways to effectively resolve each problem. Course includes guest lectures and field trips. It is case-oriented.

**33 Personnel Management (3)****CSU**

*Prerequisite: Management 1 or equivalent and consent of instructor.*

The growth and development of the field of personnel administration; unions and their relationship to business enterprises; employee selection, training, rating, promotion, discharge, hours of work and method of payment; the handling of personnel problems; diagnosing organizational stability and employee service and programs are dealt with.

*Offered only Spring of even-numbered years.*

**51 Management by Objectives (3)****CSU**

This course explores the benefits and problems of installing a management system based on results of achievement of specific goals. Major emphasis is placed on the action steps managements must take to install, evaluate and maintain such a system which heavily emphasizes management accountability.

**Cooperative Work Experience Education**

Management is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**MARKETING**

*(Formerly Merchandising)*

**1 Principles of Selling (3) CSU**

This course emphasizes the principles used in persuasive communication. Consumer buying behavior, presentations, and closing are covered. The course is designed to help students currently involved in sales as well as those seeking to improve their communication skills. Sales presentations, video tapes and case studies are used.

**11 Fundamentals of Advertising (3) CSU**

The student is given a working knowledge of advertising's place in the American economy. The fundamentals of advertising media and how these activities relate to the operation of the advertising agency are taught.

**21 Principles of Marketing (3) CSU**

This course introduces students to various activities in the field of marketing. It provides a broad understanding of the principles involved in the distribution of commodities from the producer to the user or consumer. It covers the consumer market, consumerism, packaging and brands, pricing, wholesaling, retailing, sales promotion, personal selling and international marketing. Presentations, case studies and video tapes are used.

**31 Retail Merchandising (3) CSU**

A study of the fundamental principles of wholesaling and retailing operations including a study of store location, store layout, store organization, merchandise buying, pricing, stock planning and retail sales promotion is made. Personal duties and responsibilities are also studied, including the work of the department manager, store buyer, merchandise manager, publicity director, store superinten-

dent and store controller. Field trips, speakers and video tapes are used.

**32 Fashion Merchandising (3)****CSU**

This course provides detailed information about ready-to-wear merchandise. Technical functions of apparel merchandising such as seasonal buying procedures, specific selling points, consumer buying habits and knowledge concerning fashion trends and the fashion industry are included.

**Cooperative Work Experience Education**

Marketing is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**MATHEMATICS**

*In general, prerequisites to mathematics courses should have been completed within the past two calendar years. This means that the student should have a working knowledge of the subject matter of the prerequisite course. Students should contact a mathematics instructor if there are any questions about prerequisites. For all computer courses see Computer Science-Information Technology.*

**100 Mathematics Workshop (1)**

*(Formerly Mathematics 88)*

*Prerequisite: Current enrollment in any mathematics course.*

*Recommended: For students concurrently enrolled in any mathematics course.*

Laboratory 3 hours

This course is designed to increase comprehension of all levels of mathematics utilizing tutorial assistance, calculations, programmed texts, and other review material. Metric mathematics review included.

*Credit/No Credit only.*

**105 Arithmetic for College Students (3)**

*(Formerly Mathematics 30)*

This course is designed to give the student an understanding of and a competency in the basic operations of elementary arithmetic. To attain this mastery, the student must have a genuine desire to remove arithmetic deficiencies. Topics include operations with whole numbers, common and decimal fractions, percentages, the study of the metric system and simplified calculations.

**115 Elementary Algebra (5)**

*(Formerly Mathematics 31)*

*Prerequisite: Math 105 with a grade of C or better.*

This is a first course in algebra. It covers the fundamental operations on natural numbers and carries on a logical development through all the real numbers. The course includes the solution of linear and quadratic equations and their graphs, factoring and statement problems.

**120 Plane Geometry (5)**

*(Formerly Mathematics 32)*

*Prerequisite: Mathematics 115 with a grade of C or better.*

This is a basic course in the fundamentals of Euclidean plane geometry, stressing the development of logical proof in a mathematical system.

**215 Principles of Mathematics I (3) UC:CSU**

*(Formerly Mathematics 35)*

*Prerequisite: Mathematics 115 with a grade of C or better.*

This course helps students understand topics in mathematics, including sets, number bases, number systems, logic and probability. It is recommended for prospective elementary school teachers.

*Acceptable for Mathematics 38A credit, UCLA.*

**220 Intermediate Algebra (5) CSU**

*(Formerly Mathematics 20)*

*Prerequisites: Mathematics 115 and 120 with a grade of C or better.*

Manipulative skills in algebra are developed and strengthened in the course. The topics include rational exponents, the complete number system of algebra, algebraic and graphical solutions to linear and quadratic equations, logarithmic and exponential functions, elementary theory of equations and inequalities and conics. A wide variety of statement problems are included in the course.

**225 Introductory Statistics (3)\*****UC:CSU**

*(Formerly Mathematics 14)*

*Prerequisite: Mathematics 220 with a grade of C or better within the last 3 years. Students must enroll concurrently in Math 226.*

The principles of elementary statistics which are studied include measures of central tendency, measures of dispersion, the normal distribution, probability, the histogram, chi-square test, correlation and prediction, test involving variance, and non-parametric tests. Applications are made of the central limit theorem to the testing of hypotheses.

*Acceptable for Mathematics 50A credit, UCLA. Mathematics 226, must be taken concurrently with Mathematics 225.*

**226 Elementary Statistics Problem Solving (1) UC:CSU**

*(Formerly Mathematics 54)*

*Prerequisite: Concurrent enrollment in Mathematics 225*

This course is intended for those students enrolled in Math 225. It supplements the statistics course work through problem analysis, problem solving, and the use of hand-held calculators.

**235 Mathematical Analysis for Business and Social Sciences I (5) UC:CSU**

*(Formerly Mathematics 23)*

*Prerequisite: Mathematics 220 or equivalent with a grade of C or better.*

This course covers finite mathematics consisting of sets, graphing, linear programming, vectors, matrices, linear systems, combinations, probability, statistics, game theory and Markov chains with emphasis on applications to business and social sciences.

*Acceptable for Mathematics 2 credit, UCLA. Maximum of 5 units allowed at UC.*

### 236 Mathematical Analysis for Business and Social Sciences II (4) UC:CSU

(Formerly Mathematics 24)

*Prerequisite: Mathematics 235 which may be taken concurrently or equivalent with a grade of C or better or consent of instructor and Math 220 and 120 or equivalent.*

Lecture 5 hours.

This course consists of elementary differential and integral calculus; exponential and logarithmic functions, and their applications to business and social sciences.

*Offered Spring semester only.*

*Acceptable for Mathematics 4A credit, UCLA.*

### 240 Trigonometry (3) CSU

(Formerly Mathematics 3)

*Prerequisite: Mathematics 120 and 220 with a grade of C or better or consent of instructor.*

This course of analytical trigonometry includes solutions of triangle problems, radian measure, graphs of trigonometric functions, trigonometric equations, identities, polar coordinates and inverse trigonometric function and complex numbers.

### 260 Introduction to Analysis (5) CSU

(Formerly Mathematics 40)

*Prerequisite: Mathematics 240 or equivalent with a grade of C or better.*

This course in *pre-calculus mathematics* combines the traditional courses of college algebra and analytic geometry and covers such topics as inequalities, functions, matrices and determinants, the binomial theorem, properties of the straight line, conics, algebraic and transcendental functions and parametric equations in rectangular and polar systems.

### 261 Calculus I (5) UC:CSU

(Formerly Mathematics 41)

*Prerequisite: Mathematics 260 with a grade of C or better.*

A study is made of the differentiation and integration of algebraic functions; applications of the derivative to maximum-minimum problems; related rates, motion of a particle and curve sketching; applications of the integral to the area between two curves; volumes of solids of revolution and work; the Fundamental Theorem of Integral Calculus.

*Acceptable for Mathematics 31A credit, UCLA. Mathematics 261 and 262 together are acceptable for Mathematics 31AB credit, UCLA.*

### 262 Calculus II (5) UC:CSU

(Formerly Mathematics 42)

*Prerequisite: Mathematics 261 with a grade of C or better or consent of instructor.*

The second course of calculus deals with the differentiation and integration of transcendental functions, standard techniques of integration, curves in polar coordinates and sequences and series.

*Acceptable for Mathematics 31B credit, UCLA. Mathematics 261 and 262 together are acceptable for Mathematics 31AB credit, UCLA.*

### 263 Calculus III (5) UC:CSU

(Formerly Mathematics 43)

*Prerequisite: Mathematics 262 with a grade of C or better or consent of instructor.*

The third course of calculus deals with such topics as multivariable calculus, partial differentiation, two and three-dimensional vectors, Stokes and divergence theorems, and differential equations.

*Acceptable for Mathematics 32A credit, UCLA. Mathematics 270, 275, and 263 together are acceptable for Mathematics 32A and 33AB credit at UCLA.*

### 270 Linear Algebra (3) UC:CSU

(Formerly Mathematics 13)

*Prerequisite: Mathematics 263 which may be taken concurrently.*

A study of vector spaces, linear transformations and matrices, matrix algebra, determinants and solutions of systems of equations is made.

*Mathematics 270 and 275 together are acceptable for Mathematics 33A credit at UCLA.*

*Mathematics 270, 275, and 263 together are acceptable for Mathematics 32A and 33AB credit at UCLA. Offered fall semester only.*

### 275 Ordinary Differential Equations (3) UC:CSU

(Formerly Mathematics 15)

*Prerequisite: Mathematics 263 (which may be taken concurrently with Mathematics 275).*

This study covers first order differential equations and linear differential equations. Special methods for solution of these equations are developed and applied. Laplace Transforms are developed and used for the solution of differential equations and systems of equations. Existence theorems are stated and proofs are outlined. Series solutions and operator methods are included.

*Mathematics 270 and 275 together are acceptable for Mathematics 33A credit at UCLA.*

*Mathematics 270, 275, and 263 together are acceptable for Mathematics 32A and 33AB credit at UCLA. Offered Spring semester only as an evening class.*

## METEOROLOGY

### 3 Introduction to Weather and Climate (3) UC:CSU

Atmospheric elements and controls, storms, human modification and the regional distribution of climates are studied.

*(Same as Geography 3.)*

*Acceptable for Atmospheric Science 3, credit UCLA.*

## MICROBIOLOGY

### 20 General Microbiology (4) UC:CSU

*Prerequisite: Biology 5A/5B with a grade of C or better, concurrent enrollment in or successful completion of English 2B.*

*Recommended: Chemistry 3 or 10.*

An introduction to the fundamental principles of microbiology. Included are general aspects of the structure, metabolism, multiplication, genetics and classification of bacteria, fungi, pro-

tozoa, and viruses; the methods used to control these microorganisms, the human body's natural defense mechanisms, and some selected microbial pathogens. The laboratory portion of the course covers microscopic and cultural techniques for studying and identifying microorganisms.

## MUSIC

### 101 Fundamentals of Music (3) UC:CSU

Basic rudiments of musical notation, scales, keys, intervals, common musical terms and elementary keyboard are studied. This is a preparatory course for Music 201 and Music 211.

*Acceptable for Music 1 credit, UCLA.*

### 111 Music Appreciation I (3) UC:CSU

Designed for non-music majors, this course meets humanities/fine arts requirements by surveying a wide variety of musical styles and periods, past and present. The emphasis is on perceptive listening, along with expository readings.

*Acceptable for Music 2A credit, UCLA.*

### 112 Music Appreciation II (3) UC:CSU

*NOTE: Music Appreciation I is not a prerequisite to Music Appreciation II.*

Designed for non-music majors, this course meets humanities/fine arts requirements by surveying a variety of twentieth century musical styles. The emphasis is on perceptive listening, along with expository readings. Music 112 differs from Music 111 in that the focus is on twentieth century composers and styles.

*Acceptable for Music 2B credit, UCLA.*

### 121 Music History and Literature I (3) UC:CSU

*Prerequisite: Music 101 or Music 200, or consent of instructor.*

Changes in style and the techniques of composition are traced from Gregorian chant through the development of polyphony in the Middle Ages, the secular and sacred music of the Renaissance and the vocal and instrumental music of the Baroque period.

### 122 Music History and Literature II (3) UC:CSU

*Prerequisite: Music 101 or equivalent.*

Styles, techniques and forms of music from 1750 to the present are traced. Special emphasis is placed on the development of the orchestra and its forms. The artistic philosophy of each style period is examined.

*Note: Music History and Literature I is not a prerequisite to Music History and Literature II.*

### 141 Jazz Appreciation (3) UC:CSU

Designed for non-music majors, this course meets humanities/fine arts requirements by surveying jazz styles of music from their beginnings to the present. The emphasis is on perceptive listening, along with expository readings.

**181 Applied Music I (1) UC:CSU****182 Applied Music II (1) UC:CSU****183 Applied Music III (1) UC:CSU****184 Applied Music IV (1) UC:CSU**

*Prerequisite: Open to music majors by audition.*

This course is designed for both vocal and instrumental students and provides credit for independent study. Fifteen one-hour lessons and a minimum of five hours of weekly independent music practice is required for the semester. The development of vocal/instrumental technique is emphasized. Workshop and recital participation are required. *Acceptable for credit, UC campuses; 12 units maximum from Music 181, 182, 183, 184, 321, 322, 323, 324, 341, 411, 412, 413; 414, 501, 561, 701, 705, 721, 731, 741 and 775.*

**200 Introduction to Music Theory (4) UC:CSU**

This course prepares the music major for Music 201 and Music 211 through intensive study of the notational structure of music, development of elementary sight singing and ear-training skills and emphasis on keyboard harmony. (Students enrolling in Music 200 should not enroll in Music 101 as this will result in a duplication of subject material.)

**201 Harmony I (3) UC:CSU**

*Required of all music majors. Prerequisite: Music 101, 200 or equivalent and concurrent enrollment in Music 211. Also some pianistic ability and/or concurrent enrollment in an elementary piano course.*

This course deals with the fundamental harmonic principles of music including chord structure, diatonic harmony, inversions, harmonic progression, harmonic structure of the phrase, harmonization of a given part and nonharmonic tones. Harmonic skill is developed through written exercises, analysis of classic examples and keyboard exercises.

**202 Harmony II (3) UC:CSU**

*Prerequisite: Music 201 and concurrent enrollment in Music 212.*

This course extends principles initiated in Music 201, including the structure of seventh chords, secondary dominants, altered nonharmonic tones and modulation to closely related keys.

**203 Harmony III (3) UC:CSU**

*Prerequisite: Music 202 and concurrent enrollment in Music 213.*

This course extends principles developed in Music 202, including augmented sixth chords, the Neapolitan sixth, altered dominants, diminished seventh chords, chromatic third-relation harmony, modulation to foreign keys and extended chords such as ninths, elevenths and thirteenth.

**211 Musicianship I (2) UC:CSU**

*Required of all music majors. Prerequisite: Music 101, 200 or equivalent and concurrent enrollment in Music 201.*

Correlated with Harmony 1, this course consists of a study of sight reading, one-part melodic dictation, simple harmonic dictation,

elementary theory, including scale structure, keys, intervals, musical terminology and notation, and the basic principles of musicianship. *Acceptable for Music 1 credit, UCLA.*

**212 Musicianship II (2) UC:CSU**

*Prerequisite: Music 211 and concurrent enrollment in Music 202.*

This course consists of sight reading, ear-training and keyboard application of the subject matter covered in Music 202.

**213 Musicianship III (2) UC:CSU**

*Prerequisite: Music 212 and concurrent enrollment in Music 203.*

This course consists of sight reading, ear-training and keyboard application of the subject matter covered in Music 203.

**251 Jazz Improvisation Workshop (2) CSU RPT 3**

*Prerequisites: Proficiency on a musical instrument, Music 201 and 211, or equivalent.*

This course is designed for the proficient instrumentalist who desires to develop improvisational skills in the jazz idiom. Topics covered include scales, harmonic progressions, rhythms, phrasing, interpretation and form as related to the Jazz style.

**299 Music Honors (1) UC:CSU RPT 3**

*Prerequisite: Designed for the advanced Music major with consent of department chairperson.* This course provides the gifted student in music with an opportunity for concentrated independent study in selected areas under the direct supervision of an instructor.

**321 Elementary Piano I (2) UC:CSU**

*Student must have access to a piano as daily practice is required.*

This course presents an introduction to music reading, scale playing, and the use of the pedals. The artistic performance of appropriate repertoire is emphasized.

*See acceptability Music 184.*

**322 Elementary Piano II (2) UC:CSU**

*Prerequisite: Music 321 or equivalent. Student must have access to a piano as daily practice is required.*

This course is a continuation of skills and concepts started in Elementary Piano I.

*See acceptability Music 184.*

**323 Elementary Piano III (2) UC:CSU**

*Prerequisite: Music 322 or equivalent. Student must have access to a piano as daily practice is required.*

This course is a continuation of skills and concepts developed in Elementary Piano II.

*See acceptability Music 184.*

**324 Elementary Piano IV (2) UC:CSU**

*Prerequisite: Music 323 or equivalent. Student must have access to a piano as daily practice is required.*

This course is a continuation of skills and concepts developed in Elementary Piano III.

*See acceptability Music 184.*

**341 Intermediate Piano (2) UC:CSU RPT 3**

*Prerequisite: Music 324 or equivalent.* The performance of appropriate repertoire is developed with emphasis on memorization and artistic interpretation.

*See acceptability Music 184.*

**411 Elementary Voice I (2) UC:CSU**

This course is an introduction to the proper use of the voice including attention to posture, breath control, tone quality, power, diction, range, and stage presence. Repertoire includes simple art songs and arrangements of folk songs and spirituals.

*Acceptable for Music 65 credit, UCLA. See acceptability Music 184.*

**412 Elementary Voice II (2) UC:CSU**

*Prerequisite: Music 411 or equivalent.* An extension of principles introduced in Music 411 with a greater emphasis on interpretation.

*Acceptable for Music 65 credit, UCLA. See acceptability Music 184.*

**413 Elementary Voice III (2) UC:CSU**

*Prerequisite: Music 411 and 412 or equivalent.* All aspects of solo singing are stressed, especially English, Italian, French and German diction. Repertoire includes art songs in the original language and less vocally demanding arias from opera and oratorio.

*Acceptable for Music 65 credit, UCLA. See acceptability Music 184.*

**414 Elementary Voice IV (2) UC:CSU**

*Prerequisite: Music 411, 412 and 413, or equivalent.*

This course is a continuation of principles and concepts presented in Music 413. The development of the student's ability to analyze and interpret the song repertoire is stressed.

*Acceptable for Music 65 credit, UCLA. See acceptability Music 184.*

**501 College Choir (1) UC:CSU RPT 3**

*Open to all students by audition.* This course consists of study and performance of selected choral literature for mixed voices, both accompanied and a cappella. The emphasis is placed on the development of reading skills, basic voice techniques and interpreting the score.

*Acceptable for Music 70B credit, UCLA. See acceptability Music 184.*

**561 Chamber Chorale (1) UC:CSU  
RPT 3**

*Open to all students by audition.*

Rehearsal and performance of choral music for small ensembles. The music is chosen from all stylistic periods. Emphasis is placed upon reading skills, interpreting the score and the development of a professional attitude toward public performance.

*Acceptable for Music 70C credit, UCLA see acceptability Music 184.*

**701 Instrumental Ensemble (1)  
UC:CSU RPT 3**

*Open to all musicians who play orchestral instruments.*

This course provides an opportunity for instrumentalists to develop their technique and to increase their playing experience through the rehearsal and performance of music written for various instrumental ensembles.

*See acceptability Music 184.*

**725 Community Orchestra (1)  
UC:CSU RPT 3**

*Open to all students who play orchestral instruments by audition.*

Standard orchestral literature is rehearsed and performed.

*Acceptable for Music 70H credit, UCLA.*

*See acceptability Music 184.*

**731 Rehearsal Band (1) UC:CSU  
RPT 3**

*Open to all students who play orchestral instruments without audition.*

This course provides the opportunity for inexperienced instrumentalists to have a large ensemble experience through sight-reading and rehearsing standard band literature.

*See acceptability Music 184.*

**775 Jazz Ensemble (1) UC:CSU  
RPT 3**

*Open to all instrumentalists by audition.*

This course provides the instrumentalist with the opportunity to rehearse and perform music of the past in the "big band" tradition as well as contemporary compositions written for this ensemble.

*See acceptability Music 184.*

**OCEANOGRAPHY****1 Introduction to Oceanography  
(3) UC:CSU**

The student is introduced to the general field of oceanography, including a study of the features of the sea floor, the chemical and physical properties of sea water, currents, tides, waves and their effects on marine organisms. Special reference is made to the Southern California environment and the problem of man and the sea.

**2 Introduction to Marine Biology  
(3) UC:CSU**

*Recommended: Biology 3 or any other biology course.*

An opportunity to investigate the intertidal and immediate offshore sea coast habitats is provided. The lectures, laboratory and field trips

are directed to give the student a practical working knowledge of seacoast plants and animals, their ecology and morphology. Also included are conservation topics that relate to human influence on the marine wildlife resource.

**11 Introduction to Marine  
Biology: Laboratory (1) UC:CSU**

*Prerequisite: Concurrent or prior completion of Oceanography 12.*

This course offers laboratory experiences to accompany and reinforce topics discussed in Oceanography 12. Micro-technique, identification of marine plants and animals, use of a classification key, investigation of the similarities and differences between various marine groups, and field trips. (This course partially meets life science general education requirements but does not meet biology major requirements.)

**12 Lectures in Marine Biology (3)  
UC:CSU**

*Not open to students with credit in Oceanography 2.*

Intertidal and immediate offshore seacoast habitats are investigated. The study of seacoast plants and animals, their ecology and morphology and the influence of humans on marine wildlife resources is emphasized.

Focusing on the marine environment, this course investigates areas of intense scientific and public concern, including the ocean's effect on the Earth's weather, its diverse life forms, its impact on geopolitical and economic matters, the impact of oceanic pollutants, and the potential exploitation of marine resources.

**185 Directed Study -  
Oceanography (1) UC:CSU****285 Directed Study -  
Oceanography (2) UC:CSU****385 Directed Study -  
Oceanography (3) UC:CSU**

*Prerequisite: Consent of instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in Oceanography on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

**OFFICE  
ADMINISTRATION****1 Typewriting I (3) CSU**

*Students with one year of high school typewriting or ability to type 35 w.p.m. should enroll in Office Administration 2. (Students who have completed a beginning typewriting course with a grade of "D" should enroll in Office Administration 9.)*

Five hours weekly.

Mastery of the keyboard and the basic operations of electric typewriters are developed. Emphasis is placed on fundamentals of letter writing, manuscript typing, rules for centering and tabulation and rough draft typing. The student should achieve a minimum 5-minute typing speed of 30 w.p.m.

**2 Typewriting II (3) CSU**

*Prerequisites: Office Administration 1, one year of high school typewriting or ability to type 35 w.p.m.*

Five hours weekly.

Skills developed include correct techniques in the operation of electric typewriters and speed and accuracy in typing letters, business forms, tabulation problems and manuscripts. The student should achieve a minimum 5-minute typing speed of 40 w.p.m. with a maximum of 5 errors.

**3 Typewriting III (3) CSU**

*Prerequisite: Office Administration 2 or the ability to type 45 w.p.m.*

Five hours weekly.

Skills developed include correct techniques and speed and accuracy in typing business letters and memorandums, special business forms, rough drafts, statistical and business reports. The student should achieve a minimum 5-minute typing speed of 50 w.p.m. with a maximum of 5 errors.

**6 Adding and Calculating  
Machines (1)**

*(Same as ACCTG 37)*

**7 Machine Transcription (3)**

*Prerequisite: Office Administration 2 (with a grade of C or better) or ability to type 45 w.p.m.; Business 31.*

Three hours weekly.

Skills developed include proficiency in operating transcribing machines; production typing of mailable letters and memorandums from machine dictation; and review of business letter styles, word division, spelling, punctuation, and capitalization.

**9 Typing Improvement (1) RPT 1**

*Prerequisite: Completion of beginning typing course with a grade of D or better.*

Three hours weekly.

Speed and accuracy are improved through timed writings and corrective drills. Students may enroll for two semesters, but the semesters may not be taken consecutively. This course may be taken in addition to Office Administration 2 or Office Administration 3 if the student needs additional speed and/or accuracy building.

**10 Shorthand I (5) CSU**

*Prerequisite: Office Administration 1 and Business 31, which may be taken concurrently. Students who have studied shorthand previously and can take dictation at 50 w.p.m. should enroll in Office Administration 11.*

In this beginning course in Gregg Shorthand (Series 90), students learn shorthand theory and learn to take dictation at speeds of 50 to 70 w.p.m. Transcription is also introduced.

**11 Shorthand II (5) CSU**

*Prerequisite: Office Administration 1 and 10, and Business 31, with grades of C or better, and ability to take dictation at 50 w.p.m. for 3 minutes. Concurrent enrollment in Office Administration 18 is suggested. Students who have studied shorthand previously are requested to enroll in this course where they are tested and reclassified if necessary.*

Gregg Shorthand (Series 90) is reviewed; students who have learned other shorthand systems may also enroll. Dictation speeds of 70 to 90 w.p.m. are attained. Shorthand is transcribed into mailable copy, and skill in transcribing is developed.

### 12 Shorthand III (5) CSU

*Prerequisite: Office Administration 2, 11, and 18, with grades of C or better. Students who have studied shorthand elsewhere should enroll in Office Administration 11 where they will be tested and reclassified to Office Administration 12, if qualified.*

The theory of Gregg Shorthand (Series 90) is reviewed. Emphasis is placed on building business and professional vocabulary; attaining dictation speeds of 90 to 120 w.p.m.; transcribing rapidly and producing mailable transcripts.

### 16 Shorthand Review I (3)

*Prerequisites: Office Administration 10 (or equivalent) and ability to type at least 40 w.p.m.* Gregg Shorthand Theory is reviewed. Skill is developed in writing brief forms and phrases. Dictation and transcription speeds are increased. Emphasis is placed upon mailable transcripts of letters, memoranda and enrichment of business and professional vocabularies. Students with backgrounds in other shorthand systems may also enroll.

### 17 Shorthand Review II (3)

*Prerequisite: Office Administration 16 and ability to type 40 w.p.m.*

A review of the principles of Gregg Shorthand is provided. Intensive speed building practice is given to enable students to increase their speed in taking dictation and transcribing their notes. Students with a background in other shorthand systems may also enroll.

### 18 Beginning Transcription (3) CSU

*Prerequisites: Ability to type 35 w.p.m. and take shorthand at 50 w.p.m. for 3 minutes; concurrent enrollment in Office Administration 11 or 12.*

The ability to transcribe from shorthand notes with speed and accuracy is developed. The skills of shorthand, typing, punctuation, grammar, spelling and proofreading are emphasized and combined to enable students to produce mailable, well-arranged letters and reports.

### 20 Medical Assistant Office Procedures (5)

*Prerequisite: Office Administration 1 or ability to type 40 w.p.m.*

Comprehensive training is given in all types of medical office procedures. Speed and accuracy are developed in the typing of medical copy such as case histories, reports, correspondence and insurance forms. Medical terminology and abbreviations are taught. Telephone techniques, medical record keeping, filing and other office skills are reviewed. Grooming, professional ethics and personal relationships are stressed. No shorthand is required.

### 23 Legal Secretarial Procedures I (5)

Students are introduced to the legal terminology of the law office. Students are also intro-

duced to the forms used in the law offices and in the courts and to the procedures used in performing the duties of a legal secretary.

### 24 Legal Secretarial Procedures II (5)

*Prerequisite: Office Administration 23.*

Students' knowledge of legal terminology is further strengthened. Students develop the ability to quickly and accurately prepare legal papers which are used in the law office and which must be prepared for the courts. Emphasis is given to responsibility in the performance of duties by the legal secretary.

### 31 Business English (3)

*Recommended: Concurrent enrollment in Office Administration 34.*

Lecture 3 hours.

This course is required for Office Administration majors.

*Note: Same as Business 31.*

### 32 Business Communications (3) CSU

*Prerequisite: Office Administration 31 or equivalent. Ability to type 30 w.p.m.*

Lecture 3 hours.

This course is required for Office Administration majors.

*Note: Same as Business 32.*

### 34 Business Vocabulary and Spelling (2)

Two hours weekly.

Vocabulary building and spelling skills are stressed. Emphasis is placed on phonics, spelling rules, confusing words, commonly misspelled words and the formation of plurals. The course allows application of skills through written expression.

### 35 Word Processing: Concepts in Information Systems (3) CSU

*Prerequisite: Ability to type 35 w.p.m.*

Three hours weekly.

Word processing vocabulary and unique features found on word processing equipment are studied.

### 37 Secretarial Accounting (3)

Three hours weekly.

The principles and concepts of accounting relevant to office personnel are developed. Basic accounting principles, record keeping and preparation of financial statements are included. Use of electronic calculators and typewriting skills are interrelated in calculating and typing business statements and forms.

### 39 Word Processing, Keyboarding and Operations (3) RPT 2

*Prerequisite: Ability to type 50 w.p.m.; completion of or concurrent enrollment in O.A. 35*

Five hours weekly.

This course teaches word processing skills such as inputting, editing, formatting, and outputting using the Displaywriter word processing package on the IBM-PC as well as the Displaywriter word processor.

### 44 Medical Terminology (3)

Three hours weekly.

The student develops a comprehensive medi-

cal vocabulary applicable to all specialties of medicine through the learning of Greek and Latin prefixes, suffixes, word roots, etc. A basic understanding of anatomy and physiology is provided. Training in the spelling, pronunciation and definition of medical terms is given as well as training in the use of a medical dictionary.

### 46 Machine Transcription for Medical Secretaries (2)

*Prerequisites: Office Administration I or equivalent, Bus Eng or equivalent, OA 44 or equivalent medical terminology background.*

Two hours weekly.

This course develops skill in correct transcription procedures, and in transcribing medical materials. Production typing on recorded material stressing terminology from medical reports, diagnoses, case histories and correspondence based on various areas of specialization is included. Grammar, punctuation and correct spelling of medical terms are reviewed.

### 59 Supervision of a Word Processing Center (3)

*Prerequisite: Completion of Office Administration 35.*

Three hours weekly.

Students learn how to plan, organize, and administer the operation of a word processing center. Production, quality control, and turnaround time are analyzed and evaluated. Consideration is given to the human factor in WP, conducting a WP study, analyzing and implementing a WP system, WP equipment features, operating procedures, administrative support services, human relations and staffing, techniques of selecting, training, and evaluating WP personnel, work standards and control, evaluating WP output and determining costs, office layout and environment for WP, how WP ties in to larger systems, WP future trends.

### 64 Office Administration Laboratory (1)

*Prerequisite: Concurrent enrollment in OA 35, OA 39, OA 75, or OA 79.*

This course is designed to reinforce the lectures presented in Office Administration 35, 39, 75, and 79. It gives the practice needed to apply fundamental word processing principles to projects.

### 75 Word Processing: Equipment and Operations (2) CSU

*Prerequisite: Ability to type 30 w.p.m. This is a short term class in word processing for personal use. PFS write software on the IBM-PC is used to develop computer application skills for all students, including non-business majors.*

Three hours weekly.

This class presents word processing skills on the microcomputer, including keyboarding, editing, and printing various types of documents. It is designed for all students, including non-business majors.

### 76 Keyboarding for Data Processing (1)

Five hours weekly.

This short-term class provides keyboarding skills necessary to input information on the computer terminal efficiently and accurately. Taught on a self-paced basis, this course is

designed for data processing and business students, providing the keyboarding skills necessary to input information on a computer terminal efficiently and accurately.

### 79 Word Processing Applications (3)

*Prerequisite:* Ability to type 50 w.p.m. Completion of or concurrent enrollment in O.A. 35. Three hours weekly.

Basic word processing skills, such as inputting, editing, formatting, and outputting are taught utilizing the WordStar word processing program on the IBM-PC.

### Cooperative Work Experience Education

Office Administration is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

### 185 Directed Studies in Office Administration (1)

*Prerequisite:* Ability to type 50 w.p.m., Office Administration 39, and permission of instructor.

Three hours TBA.

Students will work on independent projects as discussed and approved by instructor. Credit limit: a maximum of 3 units in Directed Study may be taken for credit.

## PERSONAL DEVELOPMENT

### 1 Introduction to College (1)

This course provides students with information concerning college and how to survive as a student. They are assisted in evaluating their ability, aptitude and interests; in planning their educational and vocational goals and in adjusting effectively to college life. Students are introduced to various support services provided by the college.

### 4 Career Planning (1) CSU

This course includes an overview of career development, personal appraisal and career testing, a computerized career testing, a computerized career information search, a personal skills evaluation, and educational planning and decision-making. Topics include personal career strategy, jobs of the future, and career indecision.

### 8 Career Planning (2) CSU

"Voyage", a series of video taped lessons provide tools with which to assess one's skills, interests, values, and motivational pattern for career and life planning. Instructor in charge guides the student's progress.

### 15A Business and Interpersonal Communications Skills (1)

This workshop develops verbal communication skills to help students manage their feelings of insecurity and/or inadequacy in both business and social settings.

### 15B Test Anxiety Management (1)

This workshop teaches students techniques and attitudes helpful in overcoming fears and anxieties which interfere with successful test

taking and with other anxiety-provoking situations in life.

### 15C Strategies for Success in College and Life (1)

This course is designed to teach students methods that enhance their success in college and life. Utilizing a *product* approach, students will develop workable, realistic goals for their education and life pursuits.

## PHILOSOPHY

*There are no prerequisites to any philosophy course although eligibility for English 1 is recommended for some courses.*

### 1 Introduction to Philosophy I (3) UC:CSU

*Recommended:* Eligibility for English 1.

A critical analysis of traditional problems of knowledge, metaphysics, philosophy of science and philosophy of religion is made.

### 2 Introduction to Philosophy II (3) UC:CSU

*Recommended:* Eligibility for English 1.

A critical analysis of problems in ethics, political philosophy and aesthetics is made.

### 3 History of Greek Thought (3) UC:CSU

*Recommended:* Eligibility for English 1.

A critical presentation of western thought from the Greek Classical philosophers to the medieval philosophers is made.

*Acceptable for Philosophy 1 credit, UCLA.*

### 4 History of Modern Thought (3) UC:CSU

*Recommended:* Eligibility for English 1.

A critical presentation of western thought from the Renaissance to the present is made.

*Acceptable for Philosophy 21, credit UCLA.*

### 6 Logic in Practice (3) UC:CSU

Application of the logical principles of sound thinking to morals, politics and everyday life is made with emphasis upon the analysis of language as an aid to sound thinking.

### 8 Deductive Logic (3) UC:CSU

This introductory course is designed to promote clear deductive thinking. It begins with a general discussion of the nature of logic and language and informal fallacies. Traditional Aristotelian logic is then studied and modern symbolic logic is introduced. Techniques of proof, translation, and logical analysis of arguments are covered.

### 9 Symbolic Logic I (3) UC:CSU

This course provides an introduction to formal logic, including truth, validity, truth tables, tautologies, contradictions, contingencies, quantification and methods of deduction.

### 18 Business Ethics (3) UC:CSU

*Recommended:* Eligibility for English 101.

This course introduces the study of values and their importance in the practical conduct of business.

### 20 Ethics (3) UC:CSU

*Recommended:* Eligibility for English 101.

An introduction to the study of human values,

the grounds of reasonable choice and the standards of right and wrong is provided.

### 23 The World's Great Religions (3) UC:CSU

An historical and philosophical study of major faiths and their ethical and theological principles is conducted.

### 24 An Introduction to the Philosophy of Literature (3) UC:CSU

*Recommended:* Eligibility for English 1.

A philosophical inquiry is made into such themes as freedom, guilt, love, self-knowledge, God, Evil, reality, death, and the meaning of life by examination of great literary works.

### 185 Directed Study - Philosophy (1) UC:CSU

### 285 Directed Study - Philosophy (2) UC:CSU

### 385 Directed Study - Philosophy (3) UC:CSU

*Prerequisites:* Completion of two courses in the subject field with a minimum grade point average of 3.5 for those courses and recommendation of instructor with whom student will work.

Conference 1 hour per unit.

Allows students to pursue Directed Study in Philosophy on a contract basis under the direction of a supervising instructor.

*Credit limit:* A maximum of 3 units in Directed Study may be taken for credit.

## PHOTOGRAPHY

### 9 Introduction to Cameras and Composition (3) CSU

*(Formerly Journalism 21)*

*Prerequisite:* Must have use of a 35mm camera.

This course emphasizes composition of news and feature pictures for use in mass communications media. Use of the photograph as an art form in telling the story, familiarity with the cameras used for news photography and procedures and techniques in darkroom processing are covered.

### 10 Beginning Photography (3) UC:CSU

Lecture 3 hours; laboratory 2 hours.

This is an introductory course designed for students without prior photographic training who do not wish to major in photography. Basic camera and laboratory photo techniques are studied to enable the student to communicate visual images as creative photographic statements.

## PHYSICAL EDUCATION

### Water Activities (1) UC:CSU

*RPT 3 except as noted*

Activity 2 hours.

Beginning, intermediate and advanced levels offered for all courses listed below, but all levels may not be taught each semester:

102 Swimming - Skills

**Individual and Dual Activities (1)****UC:CSU RPT 3**

Activity 2 hours.  
Beginning, intermediate and advanced levels offered for all courses listed below, but all levels may not be taught each semester:

- 200 Archery - Skills
- 212 Tennis - Skills
- 222 Racquetball - Skills
- 228 Body Conditioning
- 229 Body Dynamics
- 230 Weight Training - Skills
- 259 Golf - Skills
- 262 Track and Field - Skills
- 289 Bowling - Skills

**Team Sports (1) UC:CSU RPT 3**

Activity 2 hours.  
Beginning, intermediate and advanced levels offered for all courses listed below, but all levels may not be taught each semester:

- 301 Baseball - Skills
- 304 Basketball - Skills
- 310 Flag-Touch Football - Skills
- 322 Volleyball - Skills
- 328 Softball - Skills

**Dance Activities (1) UC:CSU****RPT 3**

Activity 2 hours.  
Beginning, intermediate and advanced levels offered for all courses listed below, but all levels may not be taught each semester:

- 401 International Folk Dance - Skills
- 431 Modern Dance - Skills
- 434 Ballet Techniques - Skills
- 437 Modern Jazz Dance Skills
- 440 Social Dancing - Skills
- 443 Square Dancing - Skills

**Intercollegiate Sports (2) UC:CSU****RPT 1**

Activity 10 hours in the sports season.

- 503 Baseball
- 504 Basketball
- 506 Cross Country
- 508 Football
- 509 Golf
- 514 Tennis
- 515 Track and Field
- 516 Volleyball

**Professional Sports Skills (1)****UC:CSU**

*These classes meet the required credit for Physical Education activity. Required for Physical Education and Recreation majors and minors.*

Activity 3 hours for 10 weeks.  
Theory and practice in the beginning, intermediate and advanced levels as they relate to the following activities:

- 603 Baseball
  - 605 Basketball
  - 609 Football
- Acceptable for credit: CSUN, P.E. 242, 243, 244, 245, 246, 247, 248.*

**Physical Education Major's Classes UC:CSU**

*These classes may or may not meet the required credit for Physical Education activity. Required for Physical Education and Recreation majors and minors.*

**702 Water Safety Instruction (3)**

*This class meets the required credit for Physical Education activity.*

*A qualifying swimming test is required.*

Lecture 2 hours; plus 2 hours related swimming.

This class grants the Red Cross Water Safety Instruction Certificate to students who successfully complete the requirements.

**710 Officiating Competitive Sports I (2)**

*This class does not meet the required credit for Physical Education activity.*

Lecture 1 hour; laboratory 2 hours.

This course provides the theory, practice and techniques of officiating softball, baseball, track and field and other athletic activities normally conducted during the spring semester.

*Acceptable for credit: CSUN, P.E. 710 or P.E. 711 accepted as P.E. 288(W) or P.E. 289.*

**711 Officiating Competitive Sports II (2)**

*This class does not meet the required credit for Physical Education activity.*

Lecture 1 hour; laboratory 2 hours.

This course provides the theory, practice and techniques of officiating volleyball, football, basketball, and other athletic activities normally conducted during the fall semester.

*Acceptable for credit: CSUN, P.E. 710 or P.E. 711 accepted as P.E. 288(W) or P.E. 289.*

**712 Introduction to Physical Education (3)**

*This class does not meet the required credit for Physical Education activity.*

Lecture 3 hours.

This introductory course is designed to offer the major examples of the requirements of a physical education teacher.

*Acceptable for credit: CSUN, P.E. 241.*

**Dance Major's Classes UC:CSU**

*These classes may or may not meet the required credit for Physical Education activity. Required for the Dance major.*

**801 Modern Dance I (3)**

Lecture 1 hour; laboratory 5 hours.  
Analysis of movement in terms of how and where it is produced anatomically is stressed.

**802 Modern Dance II (3)**

*Prerequisite: P.E. 801, P.E. 432, or consent of instructor.*

Lecture 1 hour; laboratory 5 hours.  
This course is a continuation of P.E. 801. It differs only in the student's ability to execute moves on a higher performance level each successive semester.

**803 Modern Dance III (3)**

*Prerequisite: P.E. 802 or consent of instructor.*  
Lecture 1 hour; laboratory 5 hours.  
Techniques geared to students theoretically equipped with skills in modern dance basics are covered.

**805 Ballet I (2)**

Lecture 1 hour; laboratory 3 hours.  
Ballet techniques and principles, including terminology, history and appreciation of ballet are studied.

**806 Ballet II (2)**

*Prerequisite: P.E. 805.*

Lecture 1 hour; laboratory 3 hours.  
A continuation of P.E. 804, ballet techniques and principles are studied. Terminology, history, and appreciation of ballet are included.

**814 Dance Production I (2) RPT 1**

Lecture 1 hour; activity 2 hours.  
This course provides laboratory experience in developing the skills involved in dance production: choreography, set design, lighting, directing and costume design.

**815 Dance Production II (2)****RPT 1**

*Prerequisite: P.E. 814.*

Lecture 1 hour; activity 2 hours.

This course is a continuation of P.E. 814.

**816 Dance Production III (3)****RPT 1**

Laboratory 9 hours.

This course consists of rehearsal for spring performance.

**PHYSICS****6 General Physics I (4) UC:CSU**

*Prerequisite: Mathematics 240, equivalent trigonometry or concurrent enrollment with consent of instructor.*

Lecture 3 hours; recitation 1 hour; laboratory 2 hours.

Physics 6 and 7 constitute a two-course sequence in general physics designed primarily for medicine, dentistry, pharmacy, optometry and geology majors. The areas of physics involved in this course are mechanics, energy, fluid mechanics, mechanical waves, thermal behavior, kinetic theory and the laws of thermodynamics.

*Acceptable for Physics 3ABC and 3AL-BL and CL credit, UCLA, when both Physics 6 and 7 are completed. See NOTE: Physics 12.*

**7 General Physics II (4) UC:CSU**

*Prerequisite: Physics 6.*

Lecture 3 hours; recitation 1 hour; laboratory 2 hours.

Physics 6 and 7 constitute a two-course sequence in general physics designed primarily for medicine, dentistry, pharmacy, optometry and geology majors. This course is a continuation of Physics 6, covering electricity, magnetism, electromagnetism, alternating currents electromagnetic waves, optics, the atom quantum physics and relativity.

*Acceptable for Physics 3ABC and 3AL-BL and CL credit, UCLA, when both Physics 6 and 7 are completed. See NOTE: Physics 12.*

**8 Mechanics, Wave Motion and Heat (5) UC:CSU**

*Prerequisite: Mathematics 261 or equivalent with a grade of C or better. A student with a grade of B or better in a high school calculus course may take Mathematics 261 concurrently with the consent of the physics instructor.*

Lecture and demonstration 4 hours; laboratory 3 hours.

This course is part of the sequence of physics courses, Physics 8, 9 and 10, which fulfills the physics requirements for those majors wh



must have physics taught with calculus. Topics studied include vectors, motion in one and two dimensions including some special relativity, particle dynamics, linear momentum, work and energy, gravitation, rotational kinematics, introduction to rotational dynamics, statics, fluids, simple harmonic motion, wave motions, thermal behavior and an introduction to kinetic theory.

Acceptable for credit, UCLA, Physics 8, 9 and 10 sequence satisfies the UCLA Physics 8ABCDE sequence.

Physics 8 and 9 satisfies the UCLA Physics 8ABC sequence. Students should plan to complete the sequence at WLAC. Transfer when part of the sequence is completed will be difficult and loss of credit is likely. See NOTE: Physics 12.

### 9 Electricity, Magnetism, Light, Particle and Nuclear Physics (5) UC:CSU

Prerequisite: Physics 8 and Mathematics 262. Students who had mathematical analysis in high school and took Mathematics 261 concurrently with Physics 8 may take Mathematics 262 concurrently with Physics 9 if they received grades of B or better in Mathematics 261 and Physics 8.

Lecture and demonstration 4 hours; laboratory 3 hours.

This course is part of the sequence of physics courses, Physics 8, 9 and 10, which fulfills the physics requirements for those majors who must have physics taught with calculus. Topics studied include: the basic concepts of electrostatics, basic direct and alternating currents, DC circuits, series AC circuits, electromagnetic waves, magnetism, geometrical and physical optics, introduction to quantum physics and nuclear reactions.

Acceptable for credit, UCLA, Physics 8, 9 and 10 sequence satisfies the UCLA Physics 8ABCDE sequence. Physics 8 and 9 satisfies the UCLA Physics 8ABC sequence. Students should plan to complete the sequence at WLAC. Transfer when part of the sequence is completed will be difficult and loss of credit is likely. See NOTE: Physics 12.

### 10 Topics for Engineering and Science Majors (4) UC:CSU

Prerequisite: Physics 9 and Mathematics 262. Lecture and demonstration 3 hours; laboratory 3 hours.

This course is part of the sequence of physics courses, Physics 8, 9 and 10, which fulfills the physics requirements for those majors who must have physics taught with calculus. Topics studied include: special relativity, expansion of rotational dynamics, expansion of AC circuits to include networks, expansion of the Kinetic Theory of gases, damped and forced vibrations, electric and magnetic fields in matter, entropy, wave mechanics and solid state.

Acceptable for credit, UCLA, Physics 8, 9 and 10 sequence satisfies the UCLA Physics 8ABCDE sequence. See NOTE: Physics 12.

### 12 Physics Fundamentals (3) UC:CSU

Prerequisite: One year of high school algebra or Mathematics 115.

Lecture and demonstration 3 hours.

This introductory course in physics which is designed primarily for liberal arts students provides qualitative knowledge of fundamental physical principles.

Acceptable for Physics 10 credit, UCLA, when both Physics 12 and 14 are completed. NOTE: No credit will be given for Physics 12 if it follows the Physics 6, 7, or 8, 9, 10 series. Credit will be limited if similar material is covered in other physics courses.

### 14 Physics Fundamentals Laboratory (1) UC:CSU

Prerequisite: Completion of Physics 12 or concurrent enrollment in Physics 12.

Laboratory 3 hours.

This course is designed for those liberal arts students who are taking or have taken Physics 12 and who wish or need to have a laboratory experience as part of their physical science education. The course consists of a large number of physical science experiments.

Acceptable for Physics 10L credit, UCLA, when both Physics 12 and 14 are completed.

### 185 Directed Study - Physics (1) UC:CSU

### 285 Directed Study - Physics (2) UC:CSU

### 385 Directed Study - Physics (3) UC:CSU

Prerequisite: Concurrent enrollment in a physics course and consent of the instructor.

Conference 1 hour per unit.

Allows students to pursue Directed Study in Physics on a contract basis under the direction of a supervising instructor.

Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.

## PHYSIOLOGY

### 1 Elementary Physiology (4) UC:CSU

Prerequisite: Biology 5A/5B with a grade of C or better; concurrent enrollment in or successful completion of English 28.

Recommended: Chemistry 3 or 10.

This course presents the biochemical and biophysical principles underlying the physiological processes of the human. Lecture topics include the neural and hormonal regulation of bodily processes, and the integration of the organ systems to maintain a constant fluid environment within the body. Special emphasis will be placed on the evaluation of body temperature, blood pressure, breathing, and urine output, as well as the interpretation of clinical laboratory tests. Laboratory exercises will introduce the student to the spectrophotometer, EKG machine, blood pressure cuff, and urinalysis tests. This course is intended to meet the requirements of students majoring in nursing, dental hygiene, occupational therapy, psychology, physical education, and life sciences, or for those who wish to extend their knowledge of the human body beyond the scope of introductory biology.

## POLITICAL SCIENCE

### 1 The Government of the United States and California (3) CSU

This course deals with the principles, problems, structures, and functions of United States and California Governments.

Acceptable for Political Science 1 credit, UCLA.

### 2 Modern World Governments (3) UC:CSU

A comparative study is made of the major governments of the modern world in terms of their institutions, ideologies, political habits and foreign policies. Emphasis is placed upon the governments of Great Britain, France, Germany and the Soviet Union.

Acceptable for Political Science 50 credit, UCLA.

### 4 Introduction to State and Local Governments (3) CSU

This general survey course introduces the student to the various functions, structures and services of state governments, their relation to local governments and their interrelationships with the federal government as appropriate. Emphasis is placed upon lectures by the instructor, guest speakers' presentations and field trips.

### 7 Contemporary World Affairs (3) UC:CSU

This course surveys the factors involved in international relations today. Emphasis is placed on providing the student with a framework for the analysis of world affairs. Major areas of analysis include the positions of the United States and the Soviet Union.

Acceptable for Political Science 20 credit, UCLA.

### 8 The Modern Far East (3) UC:CSU

Political systems of the Far East with their attendant economic and social issues are surveyed. Emphasis is placed on nationalism, imperialism, ideologies, modernization and relations with the United States.

### 13 Introduction to Public Administration (3) CSU

Prerequisite: Political Science 1.

This study of the development and practice of public administration in the United States focuses on the theoretical and practical concerns of administration and emphasizes the relationship of public administration and democratic government.

### 14 Government and Politics in the Middle East (3) UC:CSU

Lecture 3 hours.

Introduces political and governmental patterns prevalent in the Middle East including the Maghribi States, Turkey, Iran, and Israel. Special consideration given to the importance policy relations between Middle Eastern states and the rest of the world.

**30 The Political Process (3)****UC:CSU**

This course provides a critical survey of politics, including political parties, pressure groups, propaganda, public opinion and their impact on American political institutions.

**41 Principles of Student Leadership (2) CSU RPT 1**

*Prerequisite: Consent of instructor.*

Laboratory 2 hours.

The general principles of campus student government organizations are dealt with. This course includes attendance in the bi-weekly meetings of the Associated Students Executive Council.

**185 Directed Study - Political Science (1) UC:CSU****285 Directed Study - Political Science (2) UC:CSU****385 Directed Study - Political Science (3) UC:CSU**

*Prerequisite: Consent of instructor.*

Conference 1 hour per unit

Allows students to pursue Directed Study in Political Science on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

**Cooperative Work Experience Education**

Political Science is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**PSYCHOLOGY****1 General Psychology I (3) UC:CSU**

This course offers a scientific approach to principles of human behavior. It covers such topics as growth and development, heredity and environment, perception and attention, feeling and emotion, motivation, learning, thinking and intelligence, individual differences, introduction to statistical concepts, personality and social relations.

*Acceptable for Psychology 10 credit, UCLA.*

**2 General Psychology II (3) UC:CSU**

*Prerequisite: Psychology 1.*

This course considers the functional and anatomical aspects of the nervous system, the structure and function of the sense organs, as well as emotions, speech, intelligence, consciousness and sleep, motivation and psychosomatic relationships.

*Acceptable for Psychology 15 credit, UCLA.*

**3 Personality and Social Development (3) UC:CSU**

This course seeks to develop an understanding of personality dynamics and structure, theories of personality development, various behavior forms and the psychological basis of emotional adjustment. It also stresses the

mental hygiene movement and the application of insights gained to life problems.

*Acceptable for credit, maximum: 1 course from Psychology 3, 4, UC campuses.*

**4 Applied Psychology (3) CSU**

This course provides a study of the way in which psychology can be applied to increase personal and occupational efficiency and deals with problems in industry and related fields. See NOTE: Psychology 3.

**11 Child Psychology (3) UC:CSU**

This course considers the psychological development of children from infancy to adolescence, including the physical, mental, emotional, and social conduct, and the promotion of useful and healthful parent-child relations. Emphasis is placed on the family, school, community, and mass media as agents of influence.

**13 Social Psychology (3) UC:CSU**

The course involves human social relationships and the application of the principles of psychology to the solution of social problems. Group membership and leadership, role and status, attitudes, prejudices, public opinion and propaganda are also considered.

**14 Abnormal Psychology (3) UC:CSU**

The principles of general psychology are applied to the field of psychopathology. Behavior disorders are described, and their major causes and treatment are reviewed.

**16 Love and Marriage (3) CSU**

This course deals with the psychological aspects of dating, love and marriage. It is designed to provide students with a basic positive attitude towards the potentials of marriage and to prescribe the circumstances that make the marital union an opportunity for a growing, greater, "other-centered" self-realization.

*Acceptable for credit: UC campuses allow credit for only 3 units from Psychology 16 and Sociology 12.*

**21 College Reading Skills (3)**

*Prerequisite: Concurrent registration in English 47.*

Three hours lecture-clinic plus one hour laboratory in the instructional Center, by arrangement.

This course assists students who have reading handicaps. It includes training in the skills necessary for more efficient reading and stresses the development of adequate vocabularies, word attack skills and comprehension.

**22 College Study Skills (3) RPT 1**

*Prerequisite: Concurrent registration in English 47.*

Three hours lecture-clinic plus one hour laboratory in the Instructional Center, by arrangement.

This combined lecture-clinic-laboratory course presents efficient methods of study, learning and reading efficiency. Students are given insight into several approaches to study habits, reading habits, scheduling and applied practice in subject area fields. Individualized practice is offered in the Instructional Center.

**26 Power and Speed Reading (3) CSU RPT 1**

This course emphasizes the development of reading speed, comprehension and vocabulary through practice with various audio-visual devices. Emphasis is placed upon applying techniques to both study and leisure reading.

**30 Introduction to Psychology (3)**

Lecture 3 hours.

This course stresses the development of personal understanding and social skills. Emphasis is placed on the principal psychological processes and their applications to daily living. Typical areas studied dealt with the family, marriage, and career.

**52 Psychological Aspects of Human Sexuality (3) UC:CSU**

This course addresses the psycho-sexual development of the individual, the scripts that are



learned in our culture and comparative information from other cultures. The history of attitudes toward sexuality in America is studied. The study of the anatomy and physiology of the human sexual system, the physical and emotional orgasmic response, myths and misconceptions about the sexual response, sexual variance and dysfunction all are studied to help the student achieve an understanding of his or her own unique sexuality.

Psychology is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**70 Understanding Human Behavior (3) UC:CSU**

This personalized course, under instructor guidance, explores the fundamental concepts of human behavior through videotaped dramatizations and lectures.

**71 The Growing Years (3) CSU**

This personalized introductory course explores, under instructor guidance, the child's world through human interaction, biological factors, and social aspects. Designed for parents, future parents, and those interested in working with children.

**185 Directed Study - Psychology (1) UC:CSU**

**285 Directed Study - Psychology (2) UC:CSU**

**385 Directed Study - Psychology (3) UC:CSU**

*Prerequisite: Consent of instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in Psychology on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

**Cooperative Work Experience Education**

Psychology is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**REAL ESTATE**

**1 Real Estate Principles (3) CSU**

*Required for real estate salesperson license, and highly recommended as a foundation course in real estate.*

This beginning course in real estate fundamentals and principles covers real estate economics, terminology and definitions, real estate law, ownership rights, real estate investment and career opportunities, as well as other subjects vital to a basic understanding of real estate.

**3 Real Estate Practice (3) CSU**

*Prerequisite: Real Estate 1 or possession of a real estate salesperson's license or consent of instructor.*

This course covers the day-to-day activities of the real estate brokerage business, from the

viewpoint of both the owner and the sales staff. It gives practical training in such topics as: time management, human relations, client psychology, financing, leasing, appraising and property management. The course is required for those seeking the California broker's license.

**4 Real Estate Office Administration (3) CSU**

*Prerequisite: Real Estate 3 or consent of instructor.*

This course presents a practical framework for current and future managers of real estate brokerage offices. It presents and develops topics of vital interest to office administrators: establishing goals and plans, personnel recruitment and selection, listing and selling techniques, management controls and systems.

**5 Legal Aspects of Real Estate I (3) CSU**

*Prerequisite: Real Estate 1, possession of a salesperson's license or consent of instructor.*

Principles of property ownership and management, with special emphasis on the law as it applies to community property, conveyances, deeds, trust deeds, leases, brokerage activities, liens, homesteads, wills, estates and taxes are covered in detail.

**7 Real Estate Finance I (3) CSU**

*Prerequisite: Real Estate 1, possession of a real estate salesperson's license or consent of instructor.*

Forms and sources of financing property, construction and permanent financing are studied. The procedures for FHA, Cal Vet and VA financing, mortgage capital from savings and loan associations, commercial banks, insurance companies and other sources, junior mortgages, appraising for mortgages, loan ratios and leaseholds are covered.

**9 Real Estate Appraisal I (3) CSU**

*Prerequisite: Real Estate 1, possession of a real estate salesperson's license or consent of instructor.*

This course emphasizes the theory, principles and methods used in the valuation of various types of properties. Cost, market and income approaches are examined in great detail. Land and building residual techniques are also presented. An appraisal report on a single-family residence is usually required.

**10 Real Estate Appraisal II (3) CSU**

*Prerequisite: Real Estate 9.*

This advanced appraisal course features a brief review of the theory, principles and methods used in the valuation of residential, commercial and industrial properties. It also features case study problems illustrating the use of the three approaches to value and a thorough analysis of the components utilized by the income approach. This course emphasizes the valuation of all income-producing properties. An appraisal report is required on an income-producing property.

**11 Escrow Principles (3) CSU**

*Prerequisite: Real Estate 1 or Real Estate 3.*

This course gives an introduction to the principles and methods of handling escrows involv-

ing transfer of real estate ownership or real estate loans. The various forms used in escrows and escrow instructions are studied, along with the applicable laws pertaining to the escrow function.

**12 Escrow Practices (3) CSU**

*Prerequisite: Real Estate 11 or consent of instructor.*

The principles and methods of handling escrows involving title to land, sales of personal property and real estate loans are taught. Included is a study of the various forms used in the drawing of escrow instructions and closing statements, as well as the practical operation of escrow offices. Case situations and real-world problems are an integral part of the course.

**14 Property Management (3) CSU**

*Prerequisite: Real Estate 1 or Real Estate 3.*

This course is designed for real estate brokers, salespersons and owners of income-producing properties. Topics covered include the nature and types of property management, organization for management, leases and contracts, rent scheduling, selling of space and techniques of renting, tenant selection and supervision, relations with owners, budgets, purchasing accounts, reports, ethics and legal and professional relationships.

**16 Income Tax Aspects of Real Estate (3) CSU**

*Prerequisite: Real Estate 1 or consent of instructor.*

The impact of Federal and California State income tax laws upon the purchase, sale, exchange and use of real property is covered. This includes depreciation, capital gains, installment sales, prepaid interest and tax saving opportunities. Upon successful completion of this course, students may receive 45 hours of Continuing Education credit with the California Department of Real Estate.

**18 Real Estate Investments I (3) CSU**

*Prerequisite: Real Estate 1 or consent of instructor.*

This is an advanced course in which a thorough analysis is made of the investment factors that determine the evaluation of commercial, industrial and residential projects. The six basic steps in the investment process are covered in detail: Search, Analysis, Negotiation, Documentation, Contingency Removal and Property Management after Purchase. Upon completion of this course, students may receive 45 hours of Continuing Education credit with the Department of Real Estate.

**21 Real Estate Economics (3) CSU**

*Prerequisite: Real Estate 1 or consent of instructor.*

This course covers the fundamentals of economic trends and factors which affect the real estate market. Topics covered include: urban structural relationships, real estate market analysis, problems of sub-dividing and governmental relationship to real estate development.

**32 Real Estate Review (2)**

*Prerequisite: Real Estate 1 or consent of instructor.*

This course is designed as a comprehensive review for those students about to sit for their real estate salesperson's or broker's license examination. Emphasis is given to the points of view taken by the California Department of Real Estate in their structuring of examinations. Students will have the opportunity to take several practice tests during the semester, which will be based on the state model.

**60 Real Estate Mathematics (3) CSU**

*Prerequisite: Real Estate 1, possession of a salesperson's license or consent of instructor.* Applied mathematics for real estate deals with problem solving in proration, tax application, commission, capitalization, interest, discounts, depreciation, escrow, cost of financing and estate calculations.

**Cooperative Work Experience Education**

Real Estate is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**SECRETARIAL SCIENCE**

*(See Office Administration)*

**SOCIOLOGY****1 Introduction to Sociology (3) UC:CSU**

This course is an overview of what we know (and do not know) about human behavior and human societies. It examines how social life — life in groups, organizations and societies — affects people and how people affect each other and their societies.

*Acceptable for Sociology 1 credit, UCLA.*

**2 American Social Problems (3) UC:CSU**

This course deals with the analysis of societal problems in the United States today. It emphasizes problems related to poverty, deviance, criminal justice, group conflict, population, environment and social change.

**4 Sociological Analysis (3) UC:CSU**

*Prerequisite: Sociology 1 or Psychology 1.* Consideration is given on how to conduct research. Advantages and disadvantages of various research procedures are examined. Students participate in a survey research project. No background in statistics or college mathematics is needed.

**5 Contemporary Urban Society and the Minorities (3) CSU**

This introductory course begins with a condensed "history of the city." It proceeds to an analysis of sociological, psychological, economic and ecological impacts of urbanization.

**6 The Social Environment (3) UC:CSU**

This course provides a framework for the analysis of "human ecology" from the perspectives of the biological, physical and behavioral sciences. It focuses upon problems related to population change, environmental threats and urban ecology. Technology, politics, economics and other cultural obstacles to the solution of environmental problems are analyzed. Same as Environmental Studies 4.

**7 Juvenile Delinquency (3) UC:CSU**

The extent and distribution of delinquency are considered. Emphasis is placed upon the local area, meaning, implications and treatment of delinquent behavior; personal and environmental conditioning factors and the rights of children.

*Same as Administration of Justice 23.*

**8 Sociology of Aging (3) CSU**

This introduction to the study of aging examines scientific and applied theories of aging; aging and the personal system; aging and the social system and demographic and comparative cultural features of the role of the aged. Topics covered include health, family relationships, work, leisure, retirement, dying and death.

**11 Ethnic & Racial Minorities in the United States (3) UC:CSU**

Examines majority and minority relations in the U.S.; how these relations developed historically; and the social, political, and economic forces that maintain or act to change these relationships. Analysis of similarities and differences in ethnic and racial groups' experience will promote understanding of the forces underlying minority-majority relations.

**12 Marriage and Family Life (3) UC:CSU**

This course deals with theories concerning the family as a social institution, practical aspects of mate selection and marriage adjustment, the structure and function of the family, variant family patterns, historical changes and the influence of contemporary society on the family. Same as Family and Consumer Studies 31 and Psychology 16.

**22 Sociology of Women (3) UC:CSU**

This course examines sex roles in male-female and parent-child relations, the economy, political behavior and power.

**185 Directed Study - Sociology (1) UC:CSU****285 Directed Study - Sociology (2) UC:CSU****385 Directed Study - Sociology (3) UC:CSU**

*Prerequisite: Consent of instructor.* Conference 1 hour per unit. Allows students to pursue Directed Study in Sociology on a contract basis under the direction of a supervising instructor.  
*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

**Cooperative Work Experience Education**

Sociology is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**SPANISH**

Note: Completion of at least English 28 with a C or better is recommended.

**1 Elementary Spanish I (5) UC:CSU**

Laboratory 1 hour.

This course stresses practice in understanding, speaking, reading and writing simple Spanish. Training in correct pronunciation is provided. Students are introduced to Spanish and Spanish-American civilization through simple readings. Emphasis is placed upon the spoken language.

*Note: Same as Spanish 21 with Spanish 22; or Spanish 51 with Spanish 61. Spanish 1 and 2 acceptable for Spanish 1, 2, 3, credit UCLA. Acceptable for Spanish I, credit UCLA.*

**2 Elementary Spanish II (5) UC:CSU**

*Prerequisite: Spanish 1 with a grade of C or better or two years of high school Spanish or equivalent.*

Laboratory 1 hour.

This course includes review and further study of the fundamentals of the Spanish language, with emphasis upon correct pronunciation and mastery of vocabulary, including useful phrases and idioms, practice in oral and written expression and continued study of Spanish and Spanish-American civilization through selected readings. Emphasis is placed upon the spoken language.

*Note: Same as Spanish 52 with Spanish 62. Spanish 1 and 2 acceptable for Spanish 1, 2, 3, credit UCLA.*

*Acceptable for Spanish 3, credit UCLA.*

**3 Intermediate Spanish I (5) UC:CSU**

*Prerequisite: Spanish 2 with a grade of C or better, two years of high school Spanish, native knowledge of the spoken language, or consent of instructor.*

This course includes review and further study of the fundamentals of the Spanish language, with emphasis upon correct pronunciation and oral and written mastery of linguistic structure. Selected cultural readings are included.  
*Acceptable for Spanish 4, credit UCLA.*

**4 Intermediate Spanish II (5) UC:CSU**

*Prerequisite: Spanish 3, three years of high school Spanish, or consent of instructor.*

This course provides a review of the more difficult aspects of grammar and seeks to perfect comprehension, fluency and cultural knowledge. Spanish and Spanish-American life and problems are considered through readings and discussion of literature. The readings are the basis for regular composition assignments.

*Acceptable for Spanish 5, credit UCLA.*

**5 Advanced Spanish I (5)**

**UC:CSU**

*Prerequisite: Spanish 4, completion of four years of high school Spanish, or consent of instructor.*

This course continues the study of advanced grammar and composition and seeks to perfect comprehension and fluency in the language and skill in analyzing literature. It includes reading in prose and poetry from Spanish and Spanish-American literature. The readings are the basis for regular composition assignments and development of increased mastery in spoken Spanish through class discussions.

**6 Advanced Spanish II (5)**

**UC:CSU**

*Prerequisite: Spanish 5, five years of high school Spanish, or consent of instructor.*

This course continues the study of advanced grammar and composition and seeks to perfect comprehension and fluency in the language and skill in analyzing literature. It includes readings in prose and poetry from Spanish and Spanish-American literature. The readings are the basis for regular composition assignments and development of increased mastery in spoken Spanish through class discussions.

**8 Conversational Spanish (2)**

**UC:CSU**

*Prerequisite: Spanish 2 or equivalent with a grade of C or better or consent of instructor.*

This course develops the ability of the students to express themselves fluently, idiomatically and correctly in Spanish. Conversational material is selected from magazines, newspapers and selected books.

**10 Latin-American Civilization (3)**

**UC:CSU**

This course consists of lectures and discussions in English on the geography, history, customs, economic and political development, literature and arts of the Spanish-speaking and Portuguese-speaking peoples of America. It is especially recommended to all students of Spanish, but no knowledge of Spanish is required.

*Note: Same as History 23.*

*Acceptable for Spanish m44, credit UCLA.*

**14 Spanish for Public Service**

**Personnel (3) CSU RPT 1**

This course develops the ability of the students to express themselves fluently, correctly and effectively in Spanish in the areas of public service, business and community activities.

**21 Fundamentals of Spanish I (3)**

**UC:CSU**

Lecture 2 hours; laboratory 1 hour.

This course provides the first half of the fundamentals of first semester pronunciation and grammar. It also stresses practice in understanding, speaking, reading, and writing simple Spanish. Students are introduced to Spanish and Spanish-American civilization through simple readings. Emphasis is placed upon the spoken language.

*Note: Spanish 21 and 22 together are equivalent to Spanish 1. Credit UCLA.*

**22 Fundamentals of Spanish II (3)**

**UC:CSU**

*Prerequisite: Spanish 21.*

Lecture 2 hours; laboratory 1 hour.

This course provides the second half of the fundamentals of first semester pronunciation and grammar. It also stresses practice in understanding, speaking, reading, and writing simple Spanish. Students are introduced to Spanish and Spanish-American civilization through simple readings. Emphasis is placed upon the spoken language.

*Note: Spanish 21 and Spanish 22 together are equivalent to Spanish 1. Credit UCLA.*

**24 Spanish for Medical Personnel (3) CSU RPT 1**

This is a practical, informal, oral Spanish course. The course covers materials that all members of the health care team who interact with Spanish-speaking people need to know in order to communicate effectively. No prior knowledge of Spanish is required.

**101 Spanish Language Lab (1) CSU**

A mediated, independent study course which allows students to enhance their Spanish language skills through audio, video, and computer work in the language lab.

**SPEECH COMMUNICATIONS**

**1 Public Speaking I (3) UC:CSU**

This beginning course provides a study of the principles of communication and audience analysis. These principles are applied to everyday social and business relationships. Students are trained in the principles and practice of effective speech composition and delivery.

**2 Public Speaking II (3) UC:CSU**

*Prerequisite: Speech 1*

Public Speaking II encourages classroom discussion and analysis of subjects chosen by the class for special study. Discussion focuses on the search for topics and the inquiry into the nature of each topic. Analysis of selected topics is undertaken to help students "invent" solutions for the "best means of persuasion." Arrangement, structure and delivery of class and public speeches are considered also. Students evaluate the manner in which different audiences perceive and judge issues and solutions presented in varying speech situations.

**3 Voice and Articulation (3) UC:CSU**

This introductory course gives students the opportunity to practice proper methods of voice production, accurate articulation and enunciation of Standard Spoken American English. The IPA (International Phonetics Alphabet) is taught as a means of identifying sounds and enhancing listening skills.

*Acceptable for credit: maximum of 1 course from Speech 3 plus Theater 10 and 11. UC campuses.*

**5 Interpersonal Communications (3) UC:CSU**

This is an advanced course in the analysis of principles and the significance of interpersonal social interaction in all areas of life. Reasoning is applied to problem-solving tasks in a discussion situation.

**6 Business and Professional Speech (3) CSU RPT 2**

This beginning course for business and professional persons stresses the preparation and delivery of speeches, reports and briefings. Emphasis is placed upon technical aids to facilitate delivery. The course is recommended for career education majors.

**9 English Speech as a Second Language (3) UC:CSU RPT 1**

This course is designed for those whose first language is not spoken American English and also for those who are interested in teaching Spoken American English as a second language. The speech and intonation patterns of each student are analyzed so that they can work on individual problems. The IPA (International Phonetic Alphabet) is taught as a method of identifying sounds and enhancing listening skills. Improved voice production is taught when necessary.

*Acceptable for credit, 3 units maximum Speech 9; 8 units from English 43, 44, 45 and Speech 9, UC campuses.*

**11 Argumentation I (3) UC:CSU**

This course is an introduction to critical thinking which seeks to explore the various steps in the critical thinking process. Emphasis is placed on both how and why we make decisions. Topics explored include: claims, definitions, evidence, reasoning, fallacies, and persuasion.

**12 Argumentation II (3) UC:CSU**

*Prerequisite: Speech II*

Continues Argumentation I with more intensive work in case research, briefing and reasoning, and more intensive classroom debating.

**15 Story Telling (3) CSU**

Lecture 3 hours.

Emphasizes history, sources, selection, analysis, preparation and presentation of narrative prose and verse for all age levels. Develops adult story teller's knowledge, critical ability, appreciation and taste in the field of children's literature. Especially useful for teachers, nurses, librarians, recreation leaders and parents.

**16 Group Discussion (3) UC:CSU**

*Prerequisite: Speech 1.*

This course provides an analysis of the purposes, principles and types of discussion. Development of individual skills is achieved by responsible discussions, participation and leadership.

**30 Basic Speech Skills (3)**

This course is designed for those students needing intensive practice in basic oral communication skill.

**31 Communication Skills (3)**

This beginning course for general educational and vocational students emphasizes the importance of interpersonal communication in everyday living, and stresses the relationship between ways of achieving information, creating meaning and communicating ideas and feelings with others for successful living and practical problem solving.

**32 The Process of Communication (3) UC:CSU**

This course provides an introduction to communication behavior theories and their applications to interpersonal social interaction and problem solving.

**185 Directed Study - Speech (1)**

UC:CSU

**285 Directed Study - Speech (2)**

UC:CSU

**385 Directed Study - Speech (3)**

UC:CSU

*Prerequisite: Consent of instructor.*

Conference 1 hour per unit.

Allows students to pursue Directed Study in Speech on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

**STATISTICS**

(See Mathematics 225)

**SUPERVISION****1 Elements of Supervision (3) CSU**

This course introduces in general terms the total responsibilities of a supervisor in industry. Among the items covered are organization, duties and responsibilities, human relations, grievances, training, rating, promotion, quality-quantity control and management-employee relations.

**2 Basic Psychology for Supervisors (3) CSU**

This course assists supervisors in better understanding the people with whom they work. Emphasis is placed upon psychological aspects, perceptions, emotions and attitudes. Communicating and reasoning are also considered.

**3 Human Relations (Developing Supervisory Leadership) (3)**

*Prerequisite: Supervision, Business 1 or consent of instructor.*

This course increases the student's leadership effectiveness by developing a better understanding of the human element in the management process. Emphasis is placed upon effective communication; understanding one's self-

perception; examination of factors affecting motivation, attitudes and behavior patterns within individuals and exposure to the styles of leadership.

*Credit not granted to students with credit in Management 31.*

**4 Supervisors' Responsibility for Management of Personnel (3) CSU**

Personnel techniques for which the supervisors are partially responsible and for which they should have some training in carrying out their responsibilities are studied. Topics included are selection, placement, testing, orientation, training, counseling, merit rating, promotion, transfer and training for responsibility.

**6 Labor-Management Relations (3)**

Employee-employer relations in commerce, industry and government are studied. Responsibilities for effective management-relations, history of unions and other employee groups and impact of legislation on working conditions, wages, hours, discipline, disputes and participation are considered. Public employee unions, civil service and public obligations are probed. Incentive concepts, changing patterns in the work ethic and current case examples are reviewed.

**11 Oral Communications (3)**

This course assists in the development of communicative skills essential to good supervision. Consideration is given on how to achieve better understanding by developing the ability to speak and to listen more effectively.

**12 Written Communications for Supervisors (3)**

This course contains a review of writing mechanics including grammar, punctuation and sentence structure. Emphasis is placed on the writing of business letters and reports, memoranda, bulletins and technical manuals.

**Cooperative Work Experience Education**

Supervision is approved for Cooperative Work Experience Education credit. See Cooperative Education courses for prerequisites, course descriptions and credit limits.

**THEATER****100 Introduction to the Theater (3) UC:CSU**

*Required of all theater arts majors.*

This survey course introduces students to theater and to numerous related crafts such as costuming, lighting, etc. Emphasis is placed upon the student's becoming aware of the components constituting an artistic entity and being able to intelligently and objectively evaluate a professional or non-professional performance.

**110 History of the World Theater (3) UC:CSU**

*Open to all students.*

*Required of all theater arts majors.*

This course surveys the development of the theater, its playwrights, structures and methods of staging and acting from the Greeks to the contemporary theater.

*Acceptable for Theater 5AB credit, UCLA.*

**130 Playwriting (3) UC:CSU**

RPT 1

*Prerequisite: English 1 or equivalent.*

Play analysis and basic playwriting techniques geared toward development of original manuscripts for stage, screen or television are studied.

**200 Introduction to Acting (3) CSU**

Lecture 3 hours.

This course is an introduction for non-theater majors to the art and craft of acting. The student will be exposed to a brief history of acting. Various areas of actor training, including breathing and movement exercises through lecture-demonstration, ensemble exercises, scene work, play readings and viewing of live performances will be covered.

**262 Special Projects (2) CSU**

RPT 1

Students present tentative projects to the instructor for approval. Once approved, students shoulder full responsibility for completion of that project.

**267 Pantomime (3) UC:CSU**

RPT 1

This course provides an introduction to the first 15 lessons of the Basic Mime technique (a combination of the Decroux and Marceau schools). Sense memory patterns, awareness and self-discipline are emphasized to gain required control for precise, accurate, expressive and meaningful movement.

*NOTE: Acceptable for credit: maximum of 12 units from Theater 267, 270, 271, and 273, UC campuses.*

**270 Beginning Acting (3) UC:CSU**

*Required of all theater arts majors.*

This course is an introduction to basic principles and techniques of acting. The course offers students an opportunity to perform in laboratory scenes, readings and class exercises.

*See NOTE: Theater 267.*

**271 Intermediate Acting (2) UC:CSU**

*Prerequisite: Theater 270 and an acceptable audition.*

This course further explores the principles and techniques of acting as introduced in Theater 270. It offers students an opportunity to work on independent scene projects as well as to perform in class productions.

*See NOTE: Theater 267.*

**275 Scene Study (2) CSU RPT 3**

*Prerequisite: Completion of 6 units in acting with at least 2.5 G.P.A., one year acting experience or an acceptable audition.*

Acting talent is developed in an intensive and concentrated manner. Advanced skills and techniques in play analysis for character development and characterization are emphasized.

**293 Rehearsals and Performances (3) UC:CSU RPT 3**

Students are actively involved in the production of plays for college and public audiences. Primary emphasis is placed on assuming acting and stage crew assignments, but the student may also work in publicity, house management, costuming or the technical area.

*See NOTE: Theater 501.*

**350 Theater Management (3) CSU**

Principles of organization, operation and administration of educational, community and professional theater are considered. Students gain practical experience in stage management and production, specifically, publicity and house management, under faculty supervision through assignments in college-sponsored productions.

*See NOTE: Theater 501.*

**501 Introduction to Motion Picture Production (3) UC:CSU**

Materials charge.

This course provides an introduction to basic film-making elements, production techniques and equipment. Students undertake and complete group and/or individual projects.

*NOTE: Acceptable for credit: maximum 12 units from Theater 323, 342, 350, 450, 451, 291, 501, 525, UC campuses*

**505 History of Motion Pictures (3) UC:CSU**

Materials charge.

This course surveys the history of motion picture and television, with screenings of various American and foreign film landmarks.

*NOTE: Acceptable for credit: maximum of 3 units from Theater 505, 507 and 509, UC campuses*

**507 Main Currents in Motion Pictures (3) UC:CSU RPT 1**

Materials charge.

This course explores the conventions and aesthetic standards of various motion picture categories and genres, including the western, the detective film, the musical, the comedy film and science fiction.

*See NOTE: Theater 505.*

**509 The Film as an Art Form (3) UC:CSU**

Materials charge.

This course provides an introduction to the appreciation of motion picture aesthetics and production techniques. Discussions and lec-

tures on color, lighting, special effects, camera composition, dialogue, sound and narrative elements are included.

*See NOTE: Theater 505.*

**185 Directed Study - Theater (1) UC:CSU****285 Directed Study - Theater (2) UC:CSU****385 Directed Study - Theater (3) UC:CSU**

Conference 1 hour per unit.

Allows students to pursue Directed Study in Theater on a contract basis under the direction of a supervising instructor.

*Credit Limit: A maximum of 3 units in Directed Study may be taken for credit.*

**TRAVEL****1 Introduction to the Travel Industry (3)**

Students are introduced to the world of the travel agent, including air, cruise, rail, and motorcoach travel, hotels, and car rental.

**2 Travel Agency Operations (3)**

*Prerequisite: Travel 1 and 3.*

This course covers inside and outside operations and management of travel agencies, including office procedures.

**3 Domestic Airline Ticketing (3)**

Students learn how to plan schedules, compute airfares, and write tickets for domestic air travel in the United States.

**4 Advanced Domestic Airline Ticketing (3)**

*Prerequisite: Travel 1 and 3.*

This advanced course in domestic airline tariff and ticketing continues the work of Travel 3.

**5 International Airline Ticketing (3)**

*Prerequisite: Travel 1 and 3.*

Students learn how to plan schedules, compute airfares, and write tickets for international air travel.

**6 Advanced International Airline Ticketing (3)**

*Prerequisite: Travel 5.*

This advanced course in international airline tariff and ticketing continues the work of Travel 5.

**7 Travel Geography Part I (3)**

Tourist attractions and history of North America, Europe, and the Middle East are the focus of this course.

**8 Travel Geography Part II (3)**

Tourist attractions and history of Central and South America, the Pacific Basin, the Orient, and Africa are covered in this course.

**9 Travel Salesmanship (3)**

*Prerequisites: Travel 1 and 3.*

Selling techniques, promotional ideas, press releases, and advertising are stressed.

**10 Advanced Travel Agency Operations (3)**

*Prerequisites: Travel 2 and 5.*

Continuing the work of Travel 2, this course covers travel agency procedures, emphasizing problem solving and current trends.

**11 Tour Guiding and Tour Packaging (3)**

Students learn how to be an expert tour guide, including preplanning and day-to-day responsibilities.

**12 Travel Agency Bookkeeping (3)**

*Prerequisite: Travel 2.*

The bookkeeping procedures required by ATC and IATA, including bonding, sales reports, receipts and disbursements, payroll, and profit and loss, are covered.

**15 Travel Marketing and Sales Management (3)**

*Prerequisite: Travel 2 and 9.*

Continuing the work of Travel 9, this course covers marketing objectives, strategy planning, travel motivation, and research.

**17 Travel Agency Ethics and Law (3)**

*Prerequisite: Travel 2.*

Legal issues involving travel agencies, including personnel, clients, suppliers, ATC, and IATA, are covered.

**18 Familiarization Travel (1)**

*Prerequisite: Travel 1 and 3, or consent of instructor.*

This one-week class offers students the opportunity to travel in the same manner working travel agents travel, on a familiarization tour. Transportation may be by plane, ship, train or motorcoach. Special attention will be given to hotel inspections, and seminars with local travel representatives.

**19 Familiarization Travel (2)**

*Prerequisite: Travel 1 and 3, or consent of instructor.*

Similar to Travel 18, but a two-week class.

**20 Familiarization Travel (3)**

*Prerequisite: Travel 1 and 3, or consent of instructor.*

Similar to Travel 18, but a three-week class.

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