1996-97 College Calendar

**Fall Semester, 1996 -- August 19 - December 18, 1996**

- **FALL 1996**
  - **REGISTRATION**
    - August 19: First day of instruction
    - August 30: First day of late registration
  - **See Schedule of Classes**

- **September 2**
  - Labor Day - legal holiday

- **September 13**
  - Last day to drop semester-length classes without a transcript entry

- **September 20**
  - Last day to declare Credit/No Credit grading option for semester-length classes

- **November 11**
  - Veterans Day - legal holiday

- **November 22**
  - Last day to drop semester-length classes with a "W" grade
  - Last day to apply for Fall 1996 Associate Degree or Certificate of Achievement

- **November 28 & 29**
  - Thanksgiving vacation

- **SPRING 1997**
  - **REGISTRATION**
    - See Schedule of Classes

- **December 12-18**
  - Final examinations, Fall semester

- **December 18**
  - End of Fall semester

**Spring Semester, 1997 -- January 13 - May 14, 1997**

- **January 13**
  - First day of instruction

- **January 20**
  - Martin Luther King’s Birthday - Legal Holiday

- **January 27**
  - Last day to add semester-length classes

- **February 7**
  - Last day to drop a class and apply for enrollment fee, health, and parking refunds. Last day your account is credited if you drop a class. *No refunds or credits after this date.*

- **February 14 & 17**
  - Presidents’ Days - legal holidays

- **February 20**
  - Last day to declare Credit/No Credit grading option for semester-length classes

- **March 21**
  - Last day to apply for Spring 1997 Associate Degree or Certificate of Achievement

- **March 24 - 28**
  - Spring break

- **April 25**
  - Last date to drop semester-length classes with a "W" grade

- **SUMMER SESSION**
  - **REGISTRATION**
    - See Schedule of Classes

- **May 12 - 16**
  - Final examinations, Spring semester

- **May 16**
  - Graduation

- **End of Spring semester**

**Summer Session, 1997**

Please consult the Summer Session Class Schedule for beginning and ending dates of specific classes.

A registration calendar and deadline dates for Summer will also be found in the Class Schedule.
# Table of Contents

Introduction .................................................................................................................. 5

Admissions Information ................................................................................................. 7

Academic Policies ........................................................................................................... 11

Student Services ............................................................................................................. 17

Special Programs ........................................................................................................... 21

Degree Requirements and Transfer Information ......................................................... 23

Programs, Transfer Majors and Announcement of Courses ........................................ 37

College Faculty and Administration .............................................................................. 169

Appendix ....................................................................................................................... 175

Index ............................................................................................................................. 184
Introduction

History
Moorpark College was legally established by the Governing Board of the Ventura County Community College District on March 19, 1963. On September 11, 1957, the first classes were offered to 2,500 students. Dr. John J. Collins was appointed as the Governing Board as President of Moorpark College in 1966, followed by Dr. Robert A. Lombardi in 1971 and Dr. W. Ray Hearon in 1974. Dr. Stanley L. Bowers became Moorpark College’s President in July 1989, Roger W. Boedecker in 1991, and the present President, Dr. James W. Walker, in 1992.

The original campus housed the Administration Building, Library, Science Building, Technology Building, and Campus Center. Built later were the Applied Arts Building, Communications Building, Creative Arts Building, Humanities-Social Science Building, Music Building, and Student Services Building. The Performing Arts Building will open Fall 1995.

The Moorpark College Foundation was formed in 1990 and spearheaded the construction of Griffin Stadium, the Charles Temple observatory and the Carlsberg Amphitheater. The Foundation Board of Directors is comprised of community leaders who are interested in helping the college through fund-raising activities, faculty grants, and student scholarships.

Located at the eastern edge of the city of Moorpark, Moorpark College is one of the most beautiful in California. The 150-acre campus is a short drive from the Thousand Oaks/Agoura Hills areas and is situated near the city of Simi Valley.

Today, Moorpark College has approximately 11,000 students — ranging in age from 16 to 70 — who are enrolled in day, afternoon and evening courses. Fifty-five percent of the students are women and forty-five percent are men. Ethnic minority students comprise twenty-four percent of enrollment. An active Disabled Students Program serves over 400 students. Our students come from the Conejo Valley (Newbury Park, Thousand Oaks, Westlake Village), Simi Valley, Camarillo, Agoura/Calabasas, Somis, Fillmore, west San Fernando Valley, and Moorpark.

Some of the diverse programs offered at Moorpark College include a full range of general education transfer classes as well as vocation areas such as Criminal Justice, Child Development, Graphic Arts, Interior Design, Exotic Animal Training and Management, Radio/Television, Nursing, and Electronics. The college has a Center for Learning Assistance Services where students receive personal and computerized help in reading, writing, English, and math skills.

Moorpark College Foundation
The Moorpark College Foundation is a nonprofit, tax-exempt auxiliary organization which accepts and solicits gifts, donations, trusts, and bequests for college related use. It provides tax deductible advantages to the donor. It also provides a method for the college to interact with businesses, government, and other nonprofit agencies in the broader Southern California community.

Though public funds provide support for most of the instructional and related activities and facilities at the college, donations, gifts and bequests provide a significant addition to institutional accomplishments. Private contributions are essential for the support of creative faculty efforts which extend beyond normal institutionally supported areas, including scholarships for incoming honor students, and needed physical facilities such as the Charles Temple Observatory, Griffin Stadium, and special instructor-created projects which enhance a student’s learning experience.

Other facilities which cannot be provided for through available public funding also depend upon outside contributions. The Carlsberg Amphitheater and the development of Ventura County’s first public zoo are outstanding examples of vital donations which enhance the college and enrich the community.

Because Foundation resources can be allocated with greater flexibility than those of the college itself, they possess an added potential for responding to the changing needs of the college and the community, including the financing of innovative projects.

Information can be secured by calling (805) 378-1409, or by addressing a letter to the Moorpark College Foundation, 7075 Campus Road, Moorpark, CA 93021, a 501(c)(3) nonprofit corporation recognized by the Internal Revenue Service.

Philosophy and Mission
Philosophy
A public California Community College, Moorpark College is devoted to the democratic ideal of making higher education accessible to all. Accordingly, Moorpark College has a strong commitment
to providing a dynamic learning environment and to achieving the
goals of student equity by providing a campus climate conducive to
the elimination of barriers to student success. Recognizing the
diverse backgrounds, needs, and individual goals of students,
Moorpark College is committed to preparing students for citizen-
ship in a free society and for the challenges of technological and
socio-economic change.

Moorpark College is also committed to providing affordable pro-
grams and services of high quality to the community. The respon-
sibility for providing access and encouraging student success is
shared by the faculty, staff, administrators, and students as they
interact with business, industry, government, and other educational
institutions.

Mission
The Mission of Moorpark College is to:
1. Provide students with an introduction to the broad areas of hu-
man knowledge and understanding.
2. Provide students with curriculum and services that support
entry into the baccalaureate program of their choice.
3. Provide students with the training needed for entry into career
as well as retraining and skill improvement.
4. Provide student support services sufficiently comprehensive to
promote opportunities for success.
5. Provide transitional courses for students needing additional
development before entry into transfer, occupational, or general
education programs.
6. Provide students with the skills of critical thinking, writing, speak-
ing, listening, and computing.
7. Provide students with courses designed to increase awareness,
understanding, and respect for diversity.
8. Provide students with extracurricular activities that encourage
involvement in the campus community, provide for the develop-
ment of leadership skills, and support special interests.
Eligibility

Admission to Moorpark College is open to any high school graduate, anyone possessing a high school proficiency certificate, or any adult eighteen years of age or older and capable of profiting from instruction.

Moorpark College offers specialized programs in Exotic Animal Training/Management, Nursing, and International Students, which require special admissions procedures. For further information refer to respective catalog sections.

A student is eligible to attend Moorpark College if his/her legal residence is within California. Students entering any of the public community colleges of California are subject to the residency requirements as determined by the State of California.

Students whose legal residence is in another state or in a foreign country may be admitted under conditions stipulated by the Governing Board and on payment of tuition fees, a schedule of which appears in Appendix VIII.

Further information regarding residence requirements may be obtained from the Office of Admissions and Records.

Special Part-Time High School Admissions

In accordance with the California Education Code, high school students who are juniors and seniors are permitted to enroll in college courses. Enrollment fees are exempt for students concurrently enrolled in a high school.

An approved special part-time high school admissions form, signed by the student’s parent/guardian and school principal (or designee) is required before a student is permitted to register.

Students under 18 years of age not enrolled in a public school may have their parent/guardian petition the Vice President, Student and Educational Services for admission as a special full-time student.

International Students

Definition

An international student is anyone enrolled for courses in the United States who is neither a permanent resident nor a citizen of the United States. Most international students who intend to study full time in the United States will have an F-1 visa.

Persons holding immigration visas should report to the International Students Office to determine their eligibility for enrollment to the college.

Limitations on Enrollments

In order to foster cultural exchange, the District encourages ethnic and national diversity among the student body. Due to the District’s space limitations, and to the special educational needs of foreign students, the Ventura County Community College District reserves the right to limit the number of international students admitted each year.

Admission Requirements (F-1 visa student only)

Prior to admission, international students must submit the following documents for evaluation to the International Student Specialist:

1. $50 Application Processing Fee;
2. Personal letter indicating why you wish to attend Moorpark College;
3. Completed Moorpark College Application;
4. Translated transcripts from any secondary/postsecondary schools;
5. Letter of Recommendation from an official at a previous school;
6. Transfer form (only if student is transferring from a school in the U.S.);
7. Demonstrate proficiency in the English language (TOEFL is recommended or completion of Level 109 at any ELS Language Center will satisfy the English language requirement for admission);
8. Completed Foreign Student Information Application;
9. Completed Foreign Student Agreement;

Prior to enrollment in classes, foreign students must provide the following items to the International Student Specialist:

1. Completed Health Statement/Tuberculosis skin test (Mantoux);
2. Provide proof of major medical insurance coverage, or purchase insurance through the International Students Office;
3. Interview with International Student Specialist;
4. Attend orientation for new foreign students;
5. Take English and math placement tests;
6. Provide passport and I-94.

Residency Requirements
The right of a student to attend any public community college in California is conditioned by certain residence qualifications as set forth in the California Education Code as follows:
1. To qualify as a state resident, a student must have legally resided in California continuously for one year and one day prior to the beginning of the semester he/she is planning to attend. (Students who have resided in California for more than one year but less than two years, see item 6 below.) Students who meet residence requirements are not subject to nonresident fees.
2. A nonresident is a student who has not legally resided in California for one year and one day prior to the beginning of the semester in which he/she plans to enroll. Students classified as nonresidents shall be required to pay nonresident tuition fees in addition to the mandatory enrollment and health fees. A schedule of nonresident tuition fees is shown in Appendix VIII.
3. Military personnel and/or their dependents are advised to check with the Office of Admissions and Records for additional information pertaining to the determination of their legal residence.
4. Foreign students (F-1 visa) and holders of nonimmigrant visas (B, C, D, F, H, L, M, O, P, Q) are classified as nonresidents and shall be required to pay nonresident tuition fees in addition to the mandatory enrollment and health fees for each semester of attendance.
5. Persons residing in the United States on Department of Immigration & Naturalization approved visas may be eligible for admission, as well as residence classification. Such eligibility is determined by the type and status of the visa issued. Proof of current visa status must be submitted to the Office of Admissions and Records in order to determine eligibility.
6. Students who have lived in California for more than one year but less than two years will be asked to show proof of California legal residence. The burden of proving eligibility for residence status lies with the student. Failure to present such proof will result in a nonresident classification. A complete listing of acceptable proofs of residence is available from the Office of Admissions and Records.

Matriculation
Matriculation is a process which results in an agreement between the college and the student for the purpose of defining and realizing the student’s educational goal. This agreement includes responsibilities for both the college and the individual student, and results in a Student Educational Plan.

College Responsibilities Include:
1. Providing an admissions and records process that will enable the college to collect state required information on students. This information will be used as a basis for providing services to students.
2. Providing an assessment process using multiple measures to determine academic readiness in English, Reading, and Math. These assessment results will be used by the college to assist students in the selection of academic courses. Additional assessments are available in areas of study/learning skills and vocational interest.
3. Providing an orientation process designed to acquaint students with college programs, services, facilities and grounds, academic expectations, and college policies and procedures.
4. Providing counseling services to assist students in course selection, development of an individual student educational plan, and use of campus support services. Additional advisement and counseling assistance will be provided for students who have not declared an educational goal, are enrolled in basic skills courses, are on academic probation/dismissal, or have been identified as high-risk students.

5. Establishing a process to monitor a student’s progress and provide necessary assistance toward meeting educational goals.
6. Providing students with or directing them to written district procedures for challenging matriculation regulatory provisions.

Student Responsibilities Include:
1. Submitting official transcripts from high schools and colleges attended.
2. Acquiring and reading the college catalog, class schedules, handouts, and other student materials which detail college policies and procedures.
3. Indicating at least a broad educational goal upon admission.
4. Declaring a specific educational goal after completing a minimum of 15 units.
5. Participating in assessment, orientation, counseling/advisement services and other follow-up support services deemed necessary by the college in order for students to complete their stated educational goal.
6. Attending all classes and completing all course assignments.
7. Completing courses and maintaining progress toward their stated educational goals.

Matriculation Exemption Policy
All students applying to a college of the Ventura County Community College District (VCCCD) are encouraged to participate in the college’s matriculation program. Students, however, may not be exempt from the admissions or follow-up components. Students may be exempt from assessment, orientation, or counseling/advisement if they meet one of the exemption criteria listed below for each component:

Assessment:
1. Students who hold associate degrees or higher from regionally accredited institutions.
2. Students who have completed less than 15 units and whose educational goal is either:
   a. Advancement in current job/career (update job skills).
   b. Maintenance of certificate or license (e.g., nursing, real estate).
   c. Educational development (intellectual, cultural).
3. Students who provide scores from recently taken VCCCD-approved assessment tests are exempt from the testing portion of assessment.

Orientation:
1. Students who hold associate degrees or higher from regionally accredited institutions.
2. Students who have completed less than 15 units and whose educational goal is either:
   a. Advancement in current job/career (update job skills).
   b. Maintenance of certificate or license (e.g., nursing, real estate).
   c. Educational development (intellectual, cultural).
3. Students who are receiving matriculation services at another college and are attending a VCCCD campus concurrently.

Counseling/Advisement:
1. Students who hold associate degrees or higher from regionally accredited institutions.
2. Students who have completed less than 15 units and whose educational goal is either:
   a. Advancement in current job/career (update job skills).
   b. Maintenance of certificate or license (e.g., nursing, real estate).
   c. Educational development (intellectual, cultural).
3. Students who are receiving matriculation services at another college and are attending a VCCCD campus concurrently.

Students who do not meet approved matriculation exemption criteria, but choose to be exempt from part of the matriculation components, may do so by completing a waiver form available at the Counseling Office.

Admission Procedures
A student who is enrolling for the first time must complete an application for admission. Former students who attended prior to 1986 must also complete the admission application. Students who
attended between 1986 and the present may update their enrollment status by contacting the Office of Admissions and Records.

The application for admission may be obtained by contacting the Office of Admissions and Records in person, by writing to the Office of Public Information, Moorpark College, 7075 Campus Road, Moorpark, CA 93021, or by phoning (805) 378-1410 or (805) 998-6858. The application for admission is also printed in the Schedule of Classes.

Completed application forms should be submitted to the Office of Admissions and Records as early as possible. Applications may be filed at any time.

Transcripts
Students who have attended any accredited college or university or military service school and who wish to enroll in Moorpark College must have official transcripts of all previous college or university work or military service school on file at the college if they fall into any of the following categories:
1. Plan to work for a degree or certificate;
2. plan to participate in intercollegiate athletics;
3. plan to apply for veteran’s benefits (see “special note” below);
4. were placed on academic probation or dismissed from the last institution of attendance; or
5. a Veteran claiming benefits.

These transcripts must be sent directly from the institution(s) previously attended to Moorpark College.

Special Note: To comply with Veterans Administration regulations, veterans claiming benefits must have all previous college, university, or military service school transcripts on file before subsistence benefits can begin. This requires that all units, not just those acquired under previous VA benefits, be claimed.

Registration Procedures
Detailed registration instructions and procedures for all methods of registration are printed in the Schedule of Classes which is available approximately one to two months prior to the beginning of the semester. The Schedule of Classes also contains the calendar of registration dates.

Late registration is permitted into open classes during the first week of the semester. Adds into full classes require the written consent of the instructor. Beginning with the second week of the semester, class adds and registration require written approval of the instructor.

Students receive credit for classes attended only if officially enrolled.

Enrollment Fee
Students are charged a mandatory enrollment fee of $13.00 per unit. The enrollment fee is waived for High School Special Admissions Program students.

Health Fee
A mandatory $10.00 per semester ($7.00 summer session) Health Fee is charged.

Instructional Materials Fee
Some courses require an instructional materials or lab fee. These fees are listed in the Schedule of Classes.

Parking Fee (Optional)
Semester Fee, Automobile ........................................... $30.00*
Semester Fee, Motorcycle ........................................... 21.00
Classes meeting 6-11 weeks, Auto .................................. 21.00
Classes meeting 6-11 weeks, Motorcycle .......................... 12.00
Classes meeting 1-5 weeks, Auto ................................... 9.00
Classes meeting 1-5 weeks, Motorcycle ........................... 6.00
Second Vehiicle Permit (requires presentation of vehicle registration) ........................................... 6.00
Replacement Permit (requires proof that original permit was purchased) ........................................... 5.00
Combination of two permits (not less than) ................. 36.00

To encourage ride sharing and carpooling, for a student who certifies that he/she regularly has two or more passengers commuting to/from the college with him/her in the vehicle parked at the college, the fee shall not exceed twenty-five dollars ($25) per semester and ten dollars ($10) for summer session.

Students who receive financial assistance pursuant to any of the programs described in subsection (g) of Education Code Section 22252 shall be exempt from parking fees in excess of twenty dollars ($20) per semester.

A parking permit is required in all lots on campus. Vehicles without permits must purchase a “One-Day Use Permit” for $1.00. This permit must be displayed on the dash of the vehicle and parking is then permitted in all student lots. One-Day Permits can be obtained from any one of three machines located on the main driveways of the campus. CITATIONS WILL BE ISSUED FOR VEHICLE WITHOUT A VALID PERMIT.

Nonresident Tuition Fee
In addition to enrollment fees, tuition is required of nonresident and international students. The 1996-97 tuition schedule has been established at $114.00 per unit.

International Student Capital Outlay Surcharge
A $14.00 per unit surcharge will be assessed to students who are both citizens and residents of a country other than the United States.

Payment of Fees
All mandatory fees are due and payable at the time of registration. There is no grace period. Financial Aid may be available to students who need help paying their fees and who qualify. Contact the Financial Aid Office for details.

Students are not dropped from classes for nonpayment of fees. All fees owed remain due. Nonpayment of fees will prevent access to services the student may require such as transcripts or verification of enrollment. Registration privileges are denied until all fees are paid.

Outstanding Obligations
Registration, transcript, and enrollment verification services are denied to students who have outstanding obligations. These obligations include but are not limited to the following: returned checks, library fines and/or overdue books, overdue financial aid loans, loan deferments, or exit interviews, unreturned athletic equipment.

Enrollment and Parking Refunds/Credits
Applications for refund of the enrollment, health and parking fees may be made through the end of the class adjustment period as stated in each semester’s schedule of classes. The parking sticker must be turned in before a parking refund can be made. Enrollment fees will be refunded minus a $10.00 administrative fee. Applications for refunds will be available in the Records Office or Campus Business Office and must be made by the refund deadline. Refund checks are mailed within four to six weeks. No cash refunds. Students who officially drop a class or withdraw from school by the refund deadline will have their account credited. Students who do not request a refund may use the full amount credited toward a future registration or parking permit. A credit balance may not be used to buy books or supplies.

In order to qualify for a refund or credit, a student must officially drop or withdraw from class by completing the drop form available in the Records Office by the refund deadline date. Students unable to come to campus may write a letter stating which class or classes are to be dropped. It must be postmarked by the refund
Policy on Educational Workload

A student's educational workload generally consists of fifteen (15) units of work per semester in order to make normal progress toward the A.A./A.S. degree and/or transfer requirements. Students desiring to take an overload — more than nineteen and a half (19.5) units but less than twenty-two (22) — must have a counselor's approval. Students desiring to take twenty-two (22) units or more must have the approval of the Vice President, Student and Educational Services in addition to the counselor's approval.

Unit Requirements for Benefits

In order to qualify for certain benefits, minimum unit requirements must be maintained as follows:

- Veteran and war orphan benefits under GI Bill —
  - Full subsistence ...................................................... 12.0 or more units
  - 3/4 subsistence ....................................................... 9.0 - 11.5 units
  - 1/2 subsistence ......................................................... 6.0 - 8.5 units
- Social Security Benefits .................................................. 12.0 units
- Automobile & Medical Insurances ......................................... 12.0 units
- Athletic Eligibility ......................................................... 12.0 units
- Student Government ......................................................... 12.0 units
- Student Loan Deferrals —
  - Full-time .................................................................. 12.0 units
  - Half-time ................................................................. 6.0 units

Enrollment Verification

Verifications of enrollment for insurance and other purposes are provided for $3.00 per verification. Verifications are completed within five to seven days of the signed student request. Rush (24-hour) service is available for $5.00 per verification.

Verifications cannot be completed if the student has any outstanding fees and/or obligations due the District.

Transcript

Two transcripts are furnished to each student free of charge. A $3.00 fee is charged for each additional transcript. A $5.00 fee is charged for rush transcripts. Processing time is five to seven days but may be longer at the end of the semester. Rush transcripts are provided 24 hours after submission of a signed student request.

Transcripts cannot be released if the student has any outstanding fees and/or obligations due the District.

Expenses

Moorpark College, as one of California’s public community colleges, charges resident students enrollment fees.

Other expenses students must consider in attending a community college include housing, food, and transportation. These costs may vary greatly from one student to another, depending on individual circumstances, i.e., whether the student is living with his/her parents or is living independently, is married or single, etc.

It is estimated that the total annual cost of attendance at a community college to a full-time student and/or his/her parents could range from about $1,000.00 to as much as $7,000.00 for a resident and as much as $10,000.00 for a nonresident.

Full-Time Student

A student is defined as full time if carrying 12 or more units in the regular semester or 4 units in the summer session. While students may qualify for benefits if enrolled in 12 units, 15 units is the minimum units per semester for traditional transfer and graduation-bound students.
Auditing Policy

Auditing enables a student to attend a class without receiving a grade, taking an exam, or earning unit credit. Students enrolled in classes to receive ten or more semester units shall, with instructor consent, be allowed to audit one class without a fee. Students not enrolled in ten semester credit units may, with instructor consent, audit one class with a fee for auditing of fifteen dollars ($15.00) per unit per semester. Audit students must also pay the Health Fee.

Priority in class enrollment shall be given to students desiring to take the course for credit towards a certificate or degree. Therefore, students wishing to audit may register for classes in audit status by special petition only in the last two days of the add/drop period. This petition requires permission of the instructor. Laboratory classes are not normally available for audit. Students auditing a course shall not be permitted to change their enrollment in that course to receive credit for the course. Petitions for this purpose, Petition to Audit a Course, are available in the Office of Admissions and Records.

Students auditing a course are not permitted to take exams in class, nor are they permitted to challenge the course at a later date. Instructors are under no obligation to grade assignments of students auditing a course. Attendance requirements for students auditing courses are the same as for all other students as stated elsewhere in this college catalog. Audit fees are nonrefundable.

Academic Renewal Without Course Repetition

Students may petition to have a portion of previous college work disregarded in meeting academic requirements in the colleges of the Ventura County Community College District. Academic Renewal is intended to facilitate the completion of requirements necessary for an academic degree or certificate.

A student may petition, once only, to eliminate grade point calculations and credits from selected portions of previous college work which is not reflective of the student's present demonstrated ability and level of performance. The student may petition for Academic Renewal to disregard previous substandard college work by selecting one of the following options: 1. Disregard a maximum of 15 or fewer semester units of any courses with less than a C or equivalent grade taken during any one or two terms (maximum two terms), not necessarily consecutively; or 2. Disregard all courses from two consecutive terms (one summer or intersession may be regarded as equivalent to one semester at the student's discretion). Courses and units taken at any institution may be disregarded.

Academic renewal may be granted only to a student who: is currently enrolled in at least one credit course in the college; has completed at least 12 units in residence in the colleges of the Ventura County Community College District; has submitted transcripts of all College work; has waited two years since the course work to be disregarded was completed; and, has subsequently completed at least 30 semester units with a minimum 2.40 GPA.

The colleges of the Ventura County Community College District will honor similar actions by other accredited colleges and universities in determining grade point averages and credits. The petition for this purpose, "Petition for Academic Renewal," is available in the Counseling Office. Upon granting the petition of Academic Renewal, the student's permanent academic record shall be annotated in such a manner that all work remains legible, insuring a true and complete academic history.

The student should be aware that other colleges or universities may have different policies concerning Academic Renewal and may not honor this policy.

Availability of District Library Resources

The libraries at Moorpark, Oxnard and Ventura College are available to a student enrolled at any of the three colleges. The appropriate college identification card may be used at the college libraries. In addition, the Total Interlibrary Exchange (TIE) and the Black-Gold Exchange Systems permit a student to request materials from the other two libraries as well as from all members of the systems. This greatly increases the access students have to library resources.

Please see your college libraries for further details.
Cheating or Plagiarism
Instructors have the responsibility and authority for dealing with any cheating or plagiarism which may occur in their classes. It is the policy of the Ventura County Community College District that the instructor may dismiss a student involved in such dishonest behavior from class with a grade of "F." In addition, the faculty member may direct the matter to the Vice President, Student and Educational Services for further disciplinary action.

Class Attendance
Students are responsible for maintaining regular class attendance. It is also the responsibility of students, at the beginning of the semester, to become aware of the attendance and absence policies of the instructor for each class in which they are enrolled. When a student's absence exceeds in number 1/9 of the total class contact hours for the session (e.g., absence from a two-hour class for one week), the instructor may, after due warning, require that the Office of Admissions and Records drop such student from the class and that a grade be recorded in accordance with the policy for "Dropping a Course."

If other eligible students are present and seeking admission to a class, failure of a student to be present at the first scheduled meeting of that class may result in exclusion from that class.

In the event of being dropped or excluded, the student may petition for reinstatement when just cause for absence exists. Such petition must be presented in writing to the Office of Admissions and Records for administrative review. The faculty member involved will be consulted prior to any action upon a student petition for reinstatement.

College Board Advanced Placement
Moorpark College grants college credit for successful completion of Advanced Placement Program examinations of the College Board. Students who complete special advanced placement courses in high school and who present scores of three or higher (3, 4, or 5) for the Advanced Placement Examination in subjects in which the student is eligible for credit will receive college credit for specific college courses. A student may not enroll in any course for which Advanced Placement exam credit has been allowed. The following table indicates equivalencies and credit allowances. (The applicability of these courses to General Education requirements may be found in the Degree Requirements and Transfer Information section of the catalogue.)

<table>
<thead>
<tr>
<th>College</th>
<th>M.C. Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examination</td>
<td>Credit</td>
</tr>
<tr>
<td>American Government</td>
<td>Equivalencies</td>
</tr>
<tr>
<td>Art: History</td>
<td>Art 1A, 3 Units</td>
</tr>
<tr>
<td>Art: Studio Drawing</td>
<td>Humanities electives</td>
</tr>
<tr>
<td>Art: Studio General</td>
<td>3 Units Fine Arts/GE, 3 Units Humanities electives, Consult Art Department</td>
</tr>
<tr>
<td>Biology</td>
<td>Biol 2A, 2B</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Chem 1A, 1B</td>
</tr>
<tr>
<td>English Language</td>
<td>Engl 1A, 1B</td>
</tr>
<tr>
<td>English Literature</td>
<td>Composition of elective credit</td>
</tr>
<tr>
<td>European History</td>
<td>Hist 1B</td>
</tr>
<tr>
<td>French Language</td>
<td>Fr 1, 2</td>
</tr>
<tr>
<td>French Literature</td>
<td>Fr 3, 4</td>
</tr>
</tbody>
</table>

German Language        8 Units Ger 1, 2
German Literature      8 Units Ger 3, 4
Mathematics Calculus AB 5 Units Math 25A
Mathematics Calculus BC 5 Units Math 25B
Physics B              8 Units* Ph 10A/10B (No lab units)
Physics C Mechanics    4 Units* Ph 20A (No lab units)
Physics C Elec. & Magnetism 4 Units* Ph 20B (No lab units)
Spanish Language       8 Units Spn 1, 2
Spanish Literature     8 Units Spn 3, 4

*Does not meet lab requirement for General Education.

Course Repetition
A course in which a grade of C or better has been earned may not be repeated except as identified in the catalog course description or as stated below. Courses taken at any college in which a grade of D, F, NC or other substandard grade has been earned may be repeated for the purpose of improving a recorded grade. This policy may apply more than once to any particular course. A course taken at another institution, in which a substandard grade was earned, may be repeated at the colleges of the Ventura County Community College District, subject to this policy. In order to identify acceptable equivalencies, course equivalency shall be determined chiefly by content, as defined in the catalog course description, and not by course title or units. Prior approval for course repetition shall be required. The petition for this purpose, "Petition for Course Repetition," is available in the Counseling Office.

Upon completion of the repeated course, the previous grade earned shall be omitted from the computation of the cumulative grade point average and lined through on the permanent record. The permanent record shall be annotated in such a manner that all work remains legible, insuring a true and complete academic history.

Students should understand that other colleges or universities may not accept credit for work which represents a repetition of high school work. In addition, there is no assurance that repeated courses resulting in an improvement in grade will be accepted by other colleges or universities.

Repetition of General Education Credit
Lower-division credit units previously earned by a student to fulfill general education requirements for a baccalaureate degree may be accepted to fulfill general education requirements for a designated associate degree only.

Credit by Examination
Granting unit credit for a course by examination is based on the principle that previous experience, training, or instruction is the equivalent of a specific course taught by the college. If an examination indicates that the student possesses adequate equivalency and readiness to take the subject, credit may be granted. All courses shall be open to credit by examination unless specifically exempted. Each division of the college shall determine the courses for which credit by examination may be granted and the Office of Instruction shall maintain a current list of courses excluded from this policy. For the purpose of this policy, a course shall mean an organized area of instruction as described in the college catalog. A student should be advised that the use of units given by credit by exam to establish eligibility for athletics, financial aid, and veterans benefits are subject to the rules and regulations of the external agencies involved.

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

Credit by examination may be granted only to a student who: is currently enrolled in at least one course in the college; has completed at least 12 units in residence in the colleges of the Ventura County Community College District; is not on academic probation;
has submitted transcripts of all previous course work; has not
earned college credit in more advanced subject matter; and, has
not received a grade (A, B, C, D, CR, NC) or equivalent, in the
course for which he or she is seeking credit by examination at this
or any other educational institutions. A student seeking credit by
examination will receive a CR (credit) if he or she satisfactorily
passes the examination; no other grade will be recorded. Students
who are unsuccessful in an attempt to challenge by examination
will not receive a NC (no credit) and no record of the attempt for
credit by examination will appear on a student's transcript.
However, students may challenge a course only once. A student
may challenge no more than 12 units (or 4 courses) under the
Credit by Examination policy towards an Associate degree or
Certificate of Achievement. The amount of unit credit granted by
examination to an individual shall not count towards the minimum
12 units required for residency. Credit by examination may be
granted in only one course in a sequence of courses, as
determined by prerequisites and may not be granted for a course
which is prerequisite to the one in which the student is currently enrolled.
Exceptions to the proposed statement are permitted for each
college in those occupational programs where curriculum makes
this necessary. The exceptions are as follows:
1) The 12 unit residency requirement is suspended, permitting stu-
dents to petition for Credit by Examination prior to completion of
that requirement; when the residency requirement has been met,
the course(s) successfully challenged shall be added to the
student's record.
2) Credit by Examination may be granted for more than one course
in a sequence of required courses, when approved by the
administrator responsible for vocational programs.
The petition for this purpose, "Petition for Credit by Examination,
" is initiated in the Counseling Office. Approved petitions must be on
file with the administering instructor by Friday of the tenth week of the
semester. The examination is to be administered prior to the
last day of the final examination period.
Credit (CR) is assigned for work of such quality as to warrant a
letter grade of C or better. Transcript entries shall distinguish credits
obtained by examination from credits obtained as a result of
regular course enrollment. The student's academic record shall be
clearly annotated to reflect that credit was earned by examination.
Students should be aware that other colleges may not accept credit
by examination for transfer purposes.
The following courses may not be taken under the "Credit by
Examination" option: Anth 5, Hist 60T, NS 49, Photo 4, 9, RadT 49,
and all Dance and PE activity courses.

Credit for Military Service

The colleges of the Ventura County Community College District
will recognize and grant credit to service personnel for formal
educational training completed in the United States armed forces
provided such credit is not a duplication of work taken previously.

Service personnel may be allowed credit for formal service
school courses offered by the United States Military Service recom-
manded in the Guide to the Evaluation of Educational Experi-
ences in the Armed Services of the American Council on Educa-

The credit allowed will be based upon the recommendations
specified in the Guide. The maximum amount of credit which may
be allowed toward satisfaction of college requirements shall be 12
units.

Service personnel will be allowed full advanced standing credit
for college-level courses completed under the auspices of the
Defense Activity for Nontraditional Education Support (DANTES)
or the United States Armed Forces Institute (USAFI) as recom-
manded in the Guide to the Evaluation of Educational Experiences
in the Armed Services of the American Council on Educa-

Service personnel will be allowed full advanced standing credit
for college-level courses completed at the Naval Construction
Training Center (NCTC) at Port Hueneme based upon the recommenda-
tions of the Accredited Institutions of Postsecondary Education
of the American Council of Education. Such credit will be treated in

the same manner and under the same policies as allowing credit from
regionally accredited colleges and universities.

Any work taken by service personnel while in military service at
a regionally accredited college or university and for which the col-
lege or university issues a regular transcript showing the credits
allowable towards its own degrees, will be allowed advanced
standing credit toward the Associate Degree in the same manner as
if the student had pursued the courses as a civilian.

Credit/No Credit Options

Colleges of the Ventura County Community College District may
offer courses in two Credit/No Credit (CR/NC) options; 1. Courses
which are offered until a Credit/No Credit basis only; and 2. Courses
in which students may elect the Credit/No Credit option.

The first category includes those courses in which all students in the
course are evaluated on a Credit/No Credit (CR/NC) basis as
indicated in the course description in this catalog. This CR/NC
grading option shall be used to the exclusion of all other grades in
courses for which there is a single satisfactory standard of perform-
ance and for which unit credit is assigned. Credit shall be
assigned for meeting that standard. No Credit for failure to do so.
The second category of Credit/No Credit options is comprised of
courses designated by the college wherein each student may elect by
no later than the end of the first thirty percent (30%) of the term or
length of the class whether the basis of evaluation is to be
Credit/No Credit or a letter grade. Once the thirty percent (30%)
deadline has passed, the request cannot be withdrawn and the
student becomes ineligible to petition to change a grade. It is the
student's responsibility to notify the instructor of his or her intent to
be granted on a Credit/No Credit basis and to file the appropriate
form, otherwise a letter grade will be assigned. The petition for this
purpose, "Request for Credit/No Credit," is available in the
Records Office.

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.

A student may apply a maximum of 20 units of credit earned
under the Credit/No Credit option to an A.A. or A.S. degree or
Certificate of Achievement. Exceptions to this unit limitation will be
granted only to students enrolled in the designated occupational
programs specified in the Credit by Examination policy of this
catalog. Credit (CR) is used to denote "passed with credit" when
no letter grade is given. Credit is assigned for work of such quality
as to warrant a letter grade of C or better.

Units earned on a Credit/No Credit basis shall not be used to
calculate grade point average. However, units attempted for
which NC is recorded shall be considered in probation and dismis-
sal procedures.

Students should be aware that other colleges and universities
may restrict the acceptance of courses taken on a Credit/No Credit
basis, especially for satisfaction of major requirements.

Dean's List

Special recognition is accorded students who complete a pro-
gram of 12 or more units in letter grades with a 3.50 grade point
average or higher during a semester. These students are placed
on the Dean's List and given appropriate recognition on campus
and in the community. Students attending Moorpark College and
concurrently enrolled at Oxnard and/or Ventura College may re-
quest that the units be combined for eligibility for the Dean's List.
Students attending more than one campus during any semester
may choose one campus for placement on the Dean's List.

Extension Course Credit

Normally credit is not granted for extension course work, in-
cluding correspondence courses. The acceptance of such units for
credit by the college will depend on the treatment of the particular
course by the institution which offered the course. A petition for
acceptance of such course work should be accompanied by
material which explains the course content and indicates the kind of credit given by the offering institution.

In cases where the granting of credit for extension or correspondence courses is petitioned, it may be required that the student's competency in such course work be validated according to credit-by-examination procedures, as explained elsewhere in this section.

Field Trips
Field trips are required activities for a number of courses in the college curriculum. For any such courses it is intended that they be clearly identified in the college catalog and in the schedule of classes. For other courses, a field trip may be an optional activity for the students enrolled. According to policy adopted by the college district's Governing Board, all persons making any type of field trip or excursion shall be deemed to have waived all claims for injury, accident, illness, or death occurring during or by reason of the field trip or excursion.

Grade Changes
In any course of instruction in a college of the Ventura County Community College District for which grades are awarded, the instructor of the course shall determine the grade to be awarded each student in accordance with the grading system dealing with academic record symbols and grade point average. The determination of the student's grade by the instructor shall be final in the absence of mistake, fraud, bad faith or incompetency. Procedures for the correction of a grade given in error shall include expunging the incorrect grade from the record. The petition for this purpose, "Petition to Change Grade," is available in the Office of Instruction.

Withdrawal from a class may be authorized after the designated time limit by petition only in extenuating circumstances of verified cases of accidents, illnesses or other circumstances beyond control of the student. Approved petitions shall result in a "W" recorded on a student's academic record. The petition for this purpose, "Petition to Change Grade to Withdrawal," is available in the Office of Instruction. When grade changes are made, the students' permanent academic record shall be annotated in such a manner that all work remains legible, insuring a true and complete academic history.

Grading Practices
Work in all courses acceptable in fulfillment of the requirements for associate degrees, certificates, diplomas, licenses, or baccalaureate-level work shall be graded in accordance with the provisions adopted by the District Governing Board for the following sections which relate to the letter grading scale, the Credit/No Credit options, or Credit by Examination.

Grading System
Letter Grading Scale
The quality of a student's work will be measured by the following letter grades:

Symbol | Definition | Grade Points/Semester Unit
--------|-----------|---------------------------
A............Excellent..................4 points per semester unit
B............Good........................3 points per semester unit
C.............Satisfactory...............2 points per semester unit
D............Passing, less than satisfactory...1 point per semester unit
F............Failing......................0 points per semester unit
CR ..........Credit (at least satisfactory)...........Units awarded not counted in GPA
NC ..........No Credit (less than satisfactory, or failing)...........Units not counted in GPA

Grades from the letter grading scale shall be averaged on the basis of the numerical grade point equivalencies to determine a student's grade point average (GPA).

Non-evaluative Symbols
The District Governing Board has authorized the use of only the non-evaluative symbols I, RD and W which are defined in the following paragraphs:

I - Incomplete
Students who are at the end of a term and have failed to complete the required academic work of a course because of unforeseeable, emergency, and justifiable reasons may receive a symbol "I" (Incomplete) on their records. The conditions for receiving a letter grade and for the removal of the "I" must be stated by the instructor in a written record which must also state the grade to be assigned in lieu of the removal of the "I." This record must be given to the student and a copy is to be placed on file with the Registrar until the conditions are met (the "I" is made up) or the time limit is passed. A final grade shall be assigned when the work stipulated has been completed and evaluated, or when the time limit for completing the work has passed. The "I" may be made up no later than one year following the end of the term for which it was assigned.

The "I" symbol shall not be used in calculating units attempted nor for grade points.

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

W - Withdrawal
A student may withdraw from a class through the last day of the fourteenth week of instruction for full-semester classes or through seventy-five percent (75%) of a class less than a semester in length. The academic record of a student who remains in a class beyond this time limit must reflect a grade other than a "W." No notation ("W" or other) shall be made on the academic record of the student who withdraws during the first four weeks of a term or thirty percent (30%) of a term, whichever is less. Withdrawal between the end of the fourth week and the last day of the fourteenth week of instruction for full-semester classes or through seventy-five percent (75%) of a class less than a semester in length shall be recorded as a "W" on the student's record.

Forms for this purpose are available in the Records Office.

Independent Studies
The intent of Independent Studies is to enable students to further explore particular aspects of a subject by studying it in depth under the direction of an authorized instructor in that discipline. The student is expected to have completed a previous course in the subject matter. Students wishing to enroll in Independent Studies must be enrolled in at least three other units of course work at Moorpark College for the semester in which the Independent Study is to be taken. A student may be enrolled in no more than two independent studies in one semester and no more than one course in a discipline in a semester. A maximum of twelve total units of Independent Studies course work may be taken at Moorpark College, with a maximum of six units in one discipline. Students wishing to do Independent Studies should contact an instructor in the discipline in order to develop a program of study.

Offering of Course as Described in Catalog
Occasionally there may be course changes concerning pre-requisites, contents, hours, or units of credit made after publication of catalog. Efforts will be made through the class schedules, public media, and at time of registration to notify students of any changes in the course descriptions as presented in this catalog.

Prerequisites, Corequisites, and Recommended Preparation
PREREQUISITE means a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program. A prerequisite represents a set of skills or a body of knowledge that a student must possess prior to enrollment and without which the student is highly unlikely to succeed in the course or program. For example,
a student enrolling in general chemistry will have difficulty without adequate preparation in algebra.

COREQUISITE means a condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course. A corequisite represents a set of skills or a body of knowledge that a student must acquire through concurrent enrollment in another course and without which the student is highly unlikely to succeed.

Recommended preparation states the preparation suggested by the faculty to successfully complete a particular course. While encouraged to do so, students do not have to satisfy recommended preparation guidelines to enroll in a course.

Course prerequisites, corequisites or recommended preparation are specified within course descriptions announced in this catalog; they are also specified in the schedule of classes. A course has no prerequisites or corequisites unless so designated. Students must have satisfied the prerequisite or corequisite requirements for all courses in which they enroll.

Prerequisites have been established as a means of enhancing student success. Computerized admission procedures do not currently deny students access to courses with prerequisites. Nonetheless, it is highly recommended that students carefully review prerequisites before enrolling in classes.

Challenging a Prerequisite or Corequisite
It is recognized that students may have preparation equivalent to the stated prerequisites or corequisites or may wish to challenge a prerequisite or corequisite as allowed by state law. The petition for challenging a prerequisite or corequisite is available in the Counseling Office. The student shall bear the initial burden of showing that grounds exist for the challenge. The following is a list of the grounds under which a challenge may be pursued:

1) The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or corequisite course has not been made reasonably available.
2) The prerequisite or corequisite is not valid because it is not necessary for success in the course for which it is required (student documentation required).
3) The prerequisite or corequisite is unlawfully discriminatory or is being applied in an unlawfully discriminatory manner (student documentation required).
4) The student has the knowledge or ability to succeed in the course despite not meeting the prerequisite or corequisite (student documentation required).

Probation, Dismissal, and Readmission of Students
Probation, dismissal, and readmission policies and procedures are designed to assist students in making progress toward realistic academic, career, and personal goals.

Standards for Probation
A student who has attempted at least twelve (12) semester units as shown by the official academic record shall be placed on academic probation if the student has earned a grade point average below 2.0 in all units which were graded on the basis of the grading scale established by the Ventura County Community College District.

A student who has enrolled in a total of at least twelve (12) semester units as shown by the official academic record shall be placed on progress probation when the percentage of all units in which the student has enrolled and for which entries of "W," "I," and "NC" are recorded reaches or exceeds fifty percent (50%).

A student transferring to a college of the Ventura County Community College District from another college is subject to the same probation and dismissal policies as students of this college district.

Note: Probationary status is computed using only courses taken since Fall, 1981. Courses taken prior to Fall, 1981, are not in the computer data file and are not included in the calculation of probation. This may alter your probationary status.

Special Note to Students Claiming Veterans Benefits: A veteran is placed on academic probation when less than 50% of units attempted are completed, less than 2.0 semester grade point average was earned, or less than 2.0 cumulative grade point average is earned. Unsatisfactory progress is defined as being on academic probation for two consecutive semesters. The school will report unsatisfactory progress to the VA, resulting in termination of benefits. The veteran must receive academic counseling before benefits will be reinstated.

Notification of Probation
Each college in this District shall notify a student who is placed on probation at or near the beginning of the semester in which it will take effect but, in any case, no later than the start of the fall semester. The student grade report, provided for each enrolled student at the end of each term, specifies the student status for both academic and progress categories as either good standing or probation. A student placed on probation is, as a condition of continuing enrollment, to receive individual counseling, including the regulation of his or her academic program. Each student shall also receive any other support services to help the student overcome any academic difficulties.

Removal from 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.

A student on progress probation because of an excess of units for which entries of "W," "I," and "NC" are recorded shall be removed from probation when the percentage of units in this category drops below fifty percent (50%).

Standards for Dismissal
A student who is on academic probation shall be dismissed if the student earned a cumulative grade point average of less than 1.75 in all units attempted in each of three consecutive semesters.

A student who has been placed on progress probation shall be subject to dismissal if the percentage of units in which the student has been enrolled and for which entries of "W," "I," and "NC" are recorded in at least three consecutive semesters reaches or exceeds fifty percent (50%).

Notification of Dismissal
Each college in the Ventura County Community College District shall notify a student who is dismissed at or near the beginning of the semester in which it will take effect but, in any case, no later than the start of the fall semester. The student grade report, provided for each enrolled student at the end of each term, specifies the student status for both academic and progress categories as either good standing or dismissed. A student who is dismissed has the right of appeal. An exception to academic dismissal may be made only in the event of extreme and unusual medical and/or legal circumstances that can be supported by evidence provided by the student, or in the event of improved scholarship. The petition for this purpose, petition for continued enrollment or readmission, is available in the Counseling Office.

Continued Enrollment or Readmission
A student applying for continued enrollment or readmission must submit a petition to explain what circumstances or conditions would justify continued enrollment or readmission. A student applying for readmission shall not be reinstated until a minimum of one semester has elapsed after academic dismissal. A student who is petitioning shall receive counseling to assess his or her academic and career goals and must have counselor approval of his or her educational program prior to registration. The petition for this purpose, petition for continued enrollment or readmission, is available in the Counseling Office.

Counseling Services
Counseling services will be provided for students on academic or progress probation or subject to dismissal. Students on
probation and subject to dismissal may have units limited and courses or an educational plan prescribed subject to the professional judgment of the counselor. Students subject to academic dismissal shall be required to meet with a counselor prior to registration.

Transfer Credit from Foreign Colleges and Universities

Students wishing to receive credit for previous course work from foreign colleges or universities must have their transcripts evaluated by an approved credential evaluation service. Students may receive information regarding the credential evaluation service from the Moorpark College International Student Office or Counseling Department.

Course work attempted will normally be lower-division unit credit only. Requests for equivalent course credit are evaluated on an individual basis, based upon the recommendations of the transcript evaluation service.

Transfer Credit from Regionally Accredited Colleges and Universities

Students transferring to the Ventura County Community Colleges from colleges accredited by the recognized regional accrediting associations will normally be granted lower-division credit for courses entered on officially certified transcripts. These transcripts must be sent to the Office of Admissions. They will be evaluated based upon the current Transfer Credit Practices of appropriate associations.

Students transferring to the Ventura County Community College District from other regionally accredited colleges and universities, are required to declare all previous college work. Failure to provide complete information may result in dismissal from the Ventura County Community Colleges.

Use of Listening or Recording Devices

State law in California prohibits the use by anyone in a classroom of any electronic listening or recording device without prior consent of the teacher and school administration. Any student who has need to use electronic aids must secure the consent of the instructor. If the instructor agrees to the request, the notice of consent will be filed with the Vice President, Instructional Services.

Withdrawal from Class

It is the student’s responsibility to initiate a withdrawal when the withdrawal is desired by the student. Forms for this purpose are available in the Records Office.

Students or instructors may initiate a withdrawal through the end of the fourth week of instruction for full-semester classes or during the first thirty percent (30%) of a class less than a semester in length. This action results in no record of dropped classes on students’ academic records (grade card or transcript).

Students or instructors may initiate a withdrawal between the end of the fourth week and the last day of the fourteenth week for full-semester classes, or through the first seventy-five percent (75%) of a class less than a semester in length. Withdrawal shall be authorized after informing the appropriate faculty. This action shall be recorded as "W" on students’ academic records.

The academic record of a student who remains in a class beyond this time must reflect a grading symbol other than "W".

The "W" shall not be used in calculating grade point averages, but excessive "Ws" shall be used as factors in probation and dismissal procedures.

Withdrawal from a class may be authorized after the designated time limit by petition only in extenuating circumstances of verified cases of accidents, illnesses or other circumstances beyond the control of the student. Approved petitions shall result in a "W" recorded on a student’s academic records. The petition for this purpose, "Petition to Drop after Deadline," is available in the Office of Admissions and Records.

All requests for withdrawal from class or withdrawal from college must be in writing and include the student’s signature.

Withdrawal from College

It is the student’s responsibility to formally withdraw from all classes if he or she intends to withdraw from college. A student who withdraws after the end of the fourth week of instruction for full-semester classes or after the end of the first thirty percent (30%) of a term for short-term or less than full-semester classes shall have an entry made on his or her permanent record in accordance with the regulations specified in the Withdrawal from Class policy. Forms for this purpose are available in the Records Office. See Appendix IV.
Counseling and Guidance Services

A variety of counseling services is available on a day and evening basis to Moorpark College students. Through a coordinated guidance program, counselors assist students with their academic planning and also in career and personal matters. An outgrowth of these services is the group of counselor-taught Personal Growth courses.

Counselors representing major areas of study perform four principal functions: (1) assistance in planning academic programs for transfer; (2) aiding the student to insure progress toward the A.A. / A.S. Degree; (3) assistance in the selection of courses which meet the requirements of a specific major; and (4) assessment/testing and interpretation as related to career development.

The Personal Growth classes conducted by members of the counseling staff are designed to fulfill two primary purposes: (1) to aid students in academic, personal and social adjustment; (2) to provide guidance in the matter of career development.

Assessment/Testing Center Information

Moorpark College has an open admissions policy and requires no entrance examination. However, to enroll in most English, reading and/or math classes, participation in the assessment process is strongly encouraged or satisfactory completion of a prerequisite college course. Assessment testing is for advisement purposes only in order to assist students in making appropriate course selection.

For your information, the College Catalog identifies course prerequisites. Please consult the testing schedules which appear in the semester Schedule of Classes. Students who have earned prior college credit ("C" or higher grade) for an English Composition or Math course may be exempt from placement tests. Students must provide a transcript of previously completed course work prior to enrollment. See the semester Schedule of Classes for additional exemption criteria. For meeting graduation competency requirements in English, Reading and/or Math, please contact the Assessment Center.

The Assessment Center maintains records of all test results, makes advisory referrals to classes and programs, provides counseling and instructional staff with test information, and supervises standardized testing at Moorpark College. Testing for ESL Students is available through the Assessment Center and learning or physically disabled students may be tested through the Disabled Student Services Program.

Academic Counseling

Accurate information about program requirements and course prerequisites is essential for planning courses of study. Counselors serve as valuable resource people in helping to select appropriate classes. It is their concern to keep abreast of any changes that may affect completion of majors, general education and/or transfer requirements.

If a student has not selected a major field of study, the student is encouraged to meet with a counselor to develop an educational plan and to identify a major.

Students interested in transferring to four-year colleges and universities are assisted in selecting appropriate courses and majors that fulfill lower-division transfer requirements.

Students may arrange for academic advising through the Counseling Center in the Administration Building. It is advisable to call for a counseling appointment, particularly during the periods of time preceding and during registration. For students who may drop in for help with an academic problem, there is usually a counselor available at the counter in the Counseling Center between 8:00 a.m. and 4:00 p.m.

Career Counseling

The Career Development program offers a variety of services and resources designed to aid students in the process of choosing, changing or confirming career goals.

A series of occupational interest and personality assessments are available at a nominal cost through the PG 2 courses.

Students are encouraged to use the career resources in the college library in researching chosen or tentative career goals. These materials, written as well as audio visual, represent the local, state and national job markets and are constantly updated in order to provide current and relevant planning aids. Additional career information is available in the Career Transfer Center.
Personal Counseling
Moorpark College, consistent with its stated philosophy of providing a comprehensive education, one backed by supportive services, offers its students a unique opportunity to explore concerns and life situations which affect learning and personal growth with a professional counselor. A pleasant, confidential, and unhurried environment is provided.

Getting the maximum benefit out of going to college sometimes involves complications that influence direction. Students are encouraged to come to the counseling area where a concerned, professional counselor will be there to assist with non-academic concerns. The services of a licensed psychologist are available to students on a limited basis. Contact the Personal Development Center or Counseling Office for further information.

Career Transfer Center
Moorpark College offers assistance to those students who wish to transfer to four-year colleges and universities, or who need to identify a major. Activities of the Center include:

Workshops offered throughout the year on a variety of topics related to transfer, careers, and being successful in college.

Publication of a monthly calendar, distributed throughout the campus, indicating Center activities, university representative visits, important deadlines.

Assistance with reference materials including catalogs, articulation agreements, campus videos, and computerized career information.

Assistance with university admissions, financial aid, and scholarship applications.

Scheduling and coordination of all four-year representatives' visits including Transfer Days.

If an advanced degree is in your future, the Moorpark College Transfer Center can assist you in a smooth and successful transition to a four-year college or university.

Scholarships
The Career Transfer Center. (805) 378-1551 provides applications for a variety of scholarships that are available to Moorpark College students throughout the year. The scholarships are advertised on a specified bulletin board inside the Campus Center. Eligibility for scholarships depends on a number of things, including, but not limited to, scholastic achievement, financial need, and field of study. All students are encouraged to check scholarship opportunities.

Air Force ROTC (AFROTC) Program
Air Force ROTC is a college-level program designed to select and train highly-qualified men and women to become commissioned Air Force officers. After graduation from college and completion of all Air Force ROTC requirements, cadets are commissioned as second lieutenants in the United States Air Force. Typical service is four years; service duration for pilots and navigators is longer. These individuals serve in a broad range of duties from actual flying to engineering to administrative and a host of other fields, depending on the individuals background.

AFROTC offers two different programs, a four-year and a two-year program. To enter AFROTC, an individual must have at least two years of college remaining, which may include graduate study. In addition, the individual must be a United States citizen prior to entering the last two years of the program, be able to pass an Air Force medical exam, be of high moral character, and be in good academic standing in school. Entry into the last two years of the program is on a competitive basis. Application for the two-year program must be submitted about eight to nine months prior to entering the two-year program in the fall.

The program consists of one Aerospace Studies (ROTC) class and a two-hour per week leadership laboratory each term.

Below are the program locations in the greater Los Angeles area. Students can attend any accredited college and still take ROTC at one of the program locations through extension. For more information about Air Force ROTC, call the associated unit.

Program Location         Phone #
UCLA                    (310) 825-1742
Cal State San Bernardino (909) 880-5440
USC                     (213) 740-2670
Loyola Marymount        (310) 338-2770

Health Services
The Student Health Center (SHC), located in the administration building, is dedicated to helping each student realize and maintain the highest degree of physical, social, and emotional health possible. A registered nurse is available daily and during evening hours for Emergency and First Aid Treatment, Health Counseling and Referral, various Health Screening, and Immunizations. Our Self Care Center provides over the counter medication and self care information for your immediate needs.

Specialty Services provided include: General Practitioner, Women's Clinic, Psychotherapists and Dermatologist. Appointments are necessary for these services.

Student Accidents, college-related, need to be reported within 72 hours of occurrence. It is the student's responsibility to report the accident to instructor, college trainer, or SHC. All student accident reports and insurance claims are processed through the Health Center. A Health Office Assistant will help you with your accident report, insurance claims, and answer any questions.

Optional Health Insurance and Optional Dental Insurance applications are available in the Health Center.

Drug Free Campus Policy - see appendix VII. (Confidential and non-punitive help is available through the Student Health Center.)

The Mary Baird Women's Center
The Mary Baird Women's Center, located upstairs in the Library Building (L-241), is a place for students, women and men, to meet people and take advantage of the services and support available. Comfortable chairs and a library of books, magazines, and pamphlets on a wide variety of women's issues are available.

The Center sponsors various activities throughout the semester, such as noontime lectures and discussions as well as special evening presentations. In addition, staff is available for referrals to other campus and community services. A Family Law Clinic, providing free family law advice for low income women, is held the first and third Tuesday of every month at 7:00 pm.

Student Financial Support Services
Financial Aid Programs
Financial aid is based on the student's need for help in successfully pursuing an educational program. Eligibility for financial aid is determined by a Department of Education-approved needs analysis system which calculates the difference between the ability of students and their families to provide for their financial needs and the amount required to meet educational expenses while attending college. Students interested in applying for financial aid should visit or write the Student Financial Services Office to obtain the Financial Aid Application Form and detailed application process instructions.

The policy of the Ventura County Community College District is in compliance with the provisions of the Civil Rights Act of 1964 in Title IX of the Educational Amendments of 1972 in that no financial aid applicant will be discriminated against on the basis of race, religion, color, national origin, marital status, age, sex, or physical impairment.

Financial Aid eligibility in some programs requires a minimum of six (6) units of enrollment each semester. Check with the Financial Aid Office for eligibility requirements. Continued eligibility requires successful completion of contracted units with a cumulative grade point average of 2.0 or above. Please refer to the Financial Aid Satisfactory Academic Progress Standard located in the Financial Aid Office.
Types of aid available include grants, loans, and work study. These programs are funded by state and federal sources.

Grants
Grants are awarded to students who meet specific requirements for eligibility. Grants are available in varying amounts of assistance and, they may be considered gifts since they do not call for repayment. The grant programs are the Pell Grant, the Educational Opportunity Program Services & Grants (EOPSG), and the Supplemental Education Opportunity Grant (SEOG). Another grant program is the Cal-Grant which is funded and awarded by the State.

Loans
Students with financial eligibility may qualify for loans through Moorpark College, where loans are incorporated as part of the regular financial aid package. The loans bear a variable interest capped at 8.25% on the unpaid balance. Interest is not charged nor payment required on some loans until six months after the borrower ceases to be at least a half-time student. Repayment of loans may be scheduled over a 10-year period.

Work Study Program
A limited number of part-time jobs on and off campus are available to students who qualify on the basis of need. Under this program students are assigned work which is often in the nature of on-the-job training; the pay for the work is a portion of the students' financial aid packages.

Extended Opportunity Program and Services (EOPS)
Moorpark College conducts an EOPS Program that offers two basic types of assistance to students from low-income families: (1) financial assistance in the form of grants and loans, including summer grants and short-term emergency loans, and (2) educational support services. The support services include the following:
- Academic advisement
- Tutoring referrals
- and assessment
- Specialization counseling
- Early registration
- Educational plan
- Job placement
- Health services
- Transfer assistance
- Scholarship

The goals of the EOPS Program are to motivate economically and socially disadvantaged students to pursue higher education at Ventura County community colleges and to assist them in transferring to four-year colleges and universities. The EOPS staff is comprised of a coordinator, a secretary, and a counselor assistant, all of whom are dedicated to the program's goals of providing services.

There are four steps to the application procedure:
Step 1: Complete the Student Aid Application for California (SAAC) and/or Pell Grant applications for financial assistance. Apply early. (See the following section for financial aid information.) Assistance in filling out these forms is available at the EOPS Office.
Step 2: Complete the EOPS Form 1 information sheet at the EOPS Office.
Step 3: Make an appointment for an interview at the EOPS Office.
Step 4: Provide proof of family income. A copy of Federal Income Tax Form 1040A or 1040 is required in order to document parents’ past year income.

In order to qualify and be eligible for EOPS, a student must meet the following conditions:
1. Be a resident of California,
2. Be a full-time student,
3. Be eligible to receive a Board of Governors (A or B) Grant
   a. Be on AFDC or SSI/SSP or General Relief or be eligible for Deceased/Disabled Veterans' Dependent Fee Waiver or
   b. If employed, last year's family income can not exceed $17,000 for a family of four (add $1,000 for each additional dependant),
4. Have not completed more than 70 units,
5. Be educationally disadvantaged by at least one of the following criteria:
   a. High school GPA below 2.50
   b. Been previously enrolled in remedial courses
   c. Not eligible to enroll in Math 3 or
   d. Not eligible to enroll in Engr 2 or
   e. Non high school graduate
   f. Member of underrepresented group or
   g. First generation college student
6. The student must be making normal progress towards a goal, certificate, or degree as determined by the college, with a satisfactory average of "C" or better for each semester.
7. Each EOPS student must regularly attend tutorial counseling, vocational orientation, and the three EOPS individual appointments.

Further program details and advisement on application procedures are available from the EOPS Office.

Veteran's Services
The programs of Moorpark College are approved for veterans educational benefits. For information and eligibility requirements, please contact the Veterans Benefit Assistant located in the Administration Building.

Student Activities
The Student Activities Office provides a collection of student services that are supportive in enhancing the quality of student life at Moorpark College. We provide local student housing information, as well as employment opportunities for students, both on and off campus. We provide scholarship information, and advise the Associated Students. We provide a diverse student activities program and organize events such as blood drives, job fairs, speakers programs, and the annual commencement ceremonies. Please stop by and see us at the Campus Center, (805) 378-1434.

Housing
The Student Activities Office maintains a housing bulletin board in the Campus Center lobby, with listings of rooms and houses for rent in the surrounding communities. If you would like to place an ad on the housing board, please create an ad on a 3"x5" index card and mail it to the Student Activities Office, 7075 Campus Road, Moorpark CA 93021. We will place it on the housing bulletin board for 30 days at no charge.

Student Employment
Students may now access job opportunity information off the World Wide Web from the internet. The internet address is : http://www.jobtrak.com:80/ The user name and password prompt for Moorpark College listings is the word raiders. If you do not have access to the internet, the same job listings are posted on bulletin boards inside the MC Campus Center. Additional job announcements are available on the "Career Center" bulletin board, located inside the Student Lounge at the Campus Center. If you would like to place an add on the employment opportunity board, please call (800) 998-8725. The ad will be posted on the internet and at Moorpark College.

Transportation
There is a new VISTA (80) 438-1112 bus service that operates throughout the Conejo Valley with daily stops at Moorpark College. This is a very affordable, convenient, comfortable way to travel to and from the campus. You may purchase a discounted student bus pass at the Campus Center Business Office (805) 378-1437. Bus schedules are available inside the Campus Center student lounge.

Campus Advertising/Poster Regulations
All flyers, posters, and advertisements that are posted on the Moorpark College campus, must be stamped for approval by the Student Activities Office. Once approved, the items may be posted on the campus for a maximum of 30 days. If dated material is posted, advertising a certain event, it will be removed after the event has occurred. Unfortunately, the Student Activities Office cannot provide tacks, tape and staplers, so please bring your own when you come to campus. Please do not use duct tape, or heavy shipping tape, it leaves a residue and is difficult to remove. Please be aware that advertisements may not be placed on glass or painted surfaces, the exterior of buildings, vehicles, or on side-
walks. We appreciate your cooperation in adhering to this policy. If you have questions regarding this policy, please call the Student Activities Office at (805) 378-1434.

Associated Students

Every registered student at Moorpark College is a member of the Associated Students. Each spring semester, the Associated Students elects a Board of Directors. The elected ten-member student Board of Directors represent Moorpark College students on campus, district and state-wide committees. The Associated Students objectives are to support the diversity of needs and views of students, and to provide for the expression of student opinion on issues affecting student life. The Associated Students funds campus events that are sponsored by student organizations such as speakers, seminars, cultural shows and live entertainment. The Associated Students Office is located inside the Campus Center (805) 378-1400 ext. 1635.

Associated Student College Photo I.D. ($7.50/semester or $12/year)

Each semester the Associated Students sells the ASB card to help fund student services and campus activities. The student I.D. entitles you to significantly reduced admission to athletic events and theatrical productions held on campus, in addition to the right to compete for Associated Students scholarships. Several businesses, restaurants and movie theatres throughout Ventura County offer student discounts with the MC student I.D. You may buy the student I.D. when registering for classes or at any time during the year by paying for it at the campus student Business Office and bringing your receipt to the Associated Students office to have your photo taken. The Associated Students office is located inside the student lounge at the Campus Center, (805) 378-1400, ext 1635.

Student Organizations

There are a number of student organizations at Moorpark College, including the Accounting Society, Alpha Gamma Sigma Honor Society, Alpha Mu Gamma (Foreign Language Honor Society), Black Student Union, MECHA International Students, and MESA (Science). If you would like information about existing organizations, or are interested in starting a new organization, please contact the Associated Students Office at (805) 378-1400 ext. 1635.

College Services and Programs

Bookstore

The Raider Bookstore carries in stock the textbooks and supplies needed in all the classes offered each semester. Used texts can be purchased at considerable savings. Students may return books for refunds, provided they follow a clearly specified policy which is well publicized. There are book buy-back periods offered each semester when books in usable condition may be sold back by students. The bookstore also stocks a variety of goods and sundries most used by college students.

Cafeteria

The school cafeteria service is planned to satisfy a variety of appetites and pocketbooks. The food available ranges from quick snacks to complete hot meals.

Forensics Program

Moorpark College has established a reputation for having an excellent forensics program. The College’s forensics teams consistently give outstanding performances in speech and debate tournaments at regional, state and national meets; Moorpark has earned championships at all levels repeatedly for several years. Students who are interested in participation in this program should contact one of the forensics coaches, either Mr. Richard Strong or Dr. James Wyman.

Intercollegiate Athletics

Moorpark College offers a wide variety of sports programs to men and women who are interested in competing on an intercollegiate athletic level.

The college fields teams in volleyball, tennis, basketball, soccer, softball, track, and cross country for women and in football, soccer, basketball, wrestling, cross country, track, and baseball for men. The Raider athletic teams compete in the Western State Conference, one of the finest conferences in California.

It is significant to note that every sport -- minor as well as major -- enjoys equal status at Moorpark College. This philosophy is clearly demonstrated by the college’s success in the Western State Conference Athletic Supremacy race, which awards the conference’s best overall athletic program. Moorpark has been a consistent winner in this competition, with outstanding records of performance in all sports.

Raider athletes are fortunate to attend a college which boasts both a beautiful campus and first-rate athletic facilities. Among the facilities are the Raider Pavillon, home of the Raider basketball, volleyball, and wrestling teams; a driving range and putting green for golf; ten tennis courts; many challenging cross country courses; excellent baseball and softball diamonds; and a comprehensive track and field stadium. The new Griffin Stadium highlights the community-wide effort to give the Moorpark College gridiron squad a great home field.

To compete in intercollegiate athletics, students must meet the eligibility requirements of the Western State Conference, which includes enrollment and attendance in 12 units of study and a 2.0 grade point average. Varsity sports are competitive and require an advanced degree of skill. Students must be willing to devote extra time to traveling to matches and practicing.

The intercollegiate sports teams are all under the supervision of the college Athletic Coordinator.

Lost and Found

Students who lose belongings on campus should check for possible recovery of missing items. The switchboard in the Administration Building serves as a collection point for lost and found items.

Music Performance Organizations

The music performance opportunities in the Moorpark College Music Department include nine different instrumental and vocal performance organizations which invite student participation. They are the Concert Choir, Moorpark Community Orchestra, Opera Theatre, Summer Music Theatre, Jazz Ensemble, Chamber Ensembles, Wind Ensemble, Piano Ensemble, and Los Robles Master Chorale. All the organizations are offered during the academic school year with the exception of the Piano Ensemble which is offered only in the spring semester, and the Summer Music Theatre. In addition, the Moorpark Community Orchestra continues to meet during the summer. These performance organizations offer students a wealth and variety of musical performance opportunities which take place both on and off campus. For correct scheduling information check your current Schedule of Classes, or call the Music Department Office at (805) 378-1495, 378-1455 or the Humanities Office (805) 378-1443.

Student Grievance Policy

A complete description of the College Grievance Policy and the Student Conduct Code are contained in Appendices V and VI. Students seeking information about this policy should consult the Vice President, Student and Educational Services.

Campus Solicitation

The solicitation, selling, exposing for sale, offering to sell, or endorsing any goods, articles, wares, services or merchandise of any nature whatsoever for the purpose of influencing lease, rental or sale at a college is prohibited except by written permission of the District Chancellor, President of the college or the President's designee. This policy applies to all students, staff and citizens.
Special Programs

Disabled Students Program & Services

Moorpark College offers a special program for students who have permanent physical disabilities. The purpose of the program is to provide an equal opportunity in the educational process and to help students with disabilities to become integrated into the total student body.

The college is free of architectural barriers and thus provides physical access to all areas of the campus. Elevators have been installed in all two-story buildings. Special ramps, handrails and automatic doors have been installed. In addition to the removal of architectural barriers, every effort has been made to remove educational barriers and provide open access to students with disabilities to all educational programs.

Towards this end, a variety of special services are provided through the Disabled Student Services Office in the Student Services Building. The following special services are offered:

- Interpreter services for hearing impaired
- Note taking services
- Mobility assistance
- Reader services
- Transcribing services

Special equipment including:
- Tape recorders
- Print magnifiers
- Closed circuit television
- Specialized tutoring
- Registration assistance
- Test proctoring
- Special parking areas
- Academic and career guidance
- Calculators
- Adapted computers
- Large print materials

Learning Diagnostic Center

The Learning Diagnostic Center can assist learning-disabled students with the essential tools needed for success in their classes. The students' problems are diagnosed and accommodations and strategies are recommended.

Accommodations for academic classes can be provided by making arrangements with instructors. The center provides tutorial assistance that considers the students' special needs and helps them to realize their full academic potential. Educational advisement and program planning is available at the Learning Diagnostic Center in the Student Services Building.

High Tech Center for the Disabled

The High Tech Center assists physically disabled students to access computers through the use of the most sophisticated adaptive devices available. Among the adaptations in the center are a voice-activated computer system, screen reader, screen text enlarger, and a special headset designed for students who cannot move a mouse manually. IBM, Mac, and Apple computer systems are available, and both DOS and Windows environments are offered.

In addition, special skills development computer programs are available for students with learning disabilities and acquired brain injuries. The center provides students with individualized, instructional, self-paced programs utilizing computer software in the areas of memory, critical thinking, learning strategies, reading, language skills, math skills, spelling, keyboarding, word processing, and career development.

A vocational computer course is also offered which focuses on DOS, WordPerfect, career guidance, and resume development. The High Tech Center is located in AA132.

Learning Resources Center

The Learning Resources Center, the focal point of the campus for instructional support, combines the services of the College Library, the Audio-visual Services, and the Center for Learning Assistance Services (CLAS).

The College Library and Audio-visual Services

The Moorpark College Library occupies the first floor of the centrally-located library building. The collection and facilities are designed to meet the curriculum needs of the college community.

The library collection includes 63,000 books, 238 current periodical titles (magazines, newspapers and journals) and 414 periodical titles on microfilm. Also available are audio cassettes, video tapes and phonograph records.

The library reference collection maintains traditional research materials and also includes such resources as pamphlet files, college catalogs, CD-ROM index and database products, and an extensive collection of career and scholarship information. A computerized
are credited toward the A.A. degree as well as toward transfer to a four-year college.

The Women's Studies Program emphasizes freedom of choice and provides an academic setting to explore the varied options available to women today. The Women's Studies Program offers the students an opportunity to enjoy the company and support of other women while taking classes of special interest.

Courses offered in the program cover a wide range of interest. Included in the offerings are Psychology, History, Humanities, Film, English, Sociology, Physical Education, Business, Personal Growth, and other subjects that emphasize the woman's perspective. Consult the most recent schedule of classes for the current offerings.

International Student Program

Moorpark College is authorized by the Immigration and Naturalization Service to admit international students. The purpose of the International Student Office is to assist our international students while they are in the United States. International students are encouraged to visit the office if they have any questions and concerns. Some of the services provided by the staff in the International Student Office are:

- Admission & registration assistance
- Immigration regulations & documentation
- Employment
- Housing assistance
- Liaison between student & faculty

Television Courses

Ventura County residents have the unusual opportunity to enroll in televised college credit courses offered by the Southern California Consortium for Community College Television. Students may enroll in these courses at Moorpark College. An instructor of record on campus will serve as a personal contact for each course to answer questions, to conduct review sessions and study projects, and to administer the midterm and final examinations. Students must view the telecasts, attend designated meetings, perform required projects, and take the midterm and final examinations to earn credit for the course. The credit granted for these courses is in semester units; the courses are normally transferable.

Company Specific Education and Training Program

Moorpark College offers special education programming through its Company Specific Education and Training efforts. Specifically the college works directly with business and industry in the Ventura County in the offering of educational programs designed to the direct specifications of business and industry needs. Most of the courses offered provide elective college credit. Those employees of the companies taking these courses are also encouraged to enroll in the regular college programs to earn certificates and degrees.

Study Abroad Program

In 1988 Moorpark College began to offer students the option of taking regularly scheduled classes at either the Moorpark Campus or at a site in a foreign country. Two main types of programs are available, one lasting an entire semester, and the other, shorter term, covering a six-week summer session or Winter/Spring breaks. The semester programs have been offered at Oxford, England since 1988. There is a program of environmental study offered in Baja California. The Oxford Program has consisted of courses in Political Science, History, English, Humanities, Geology, Geography, and Philosophy. All courses are taught by two instructors, selected each year from among the Moorpark College faculty. The content of these classes is identical to the same classes taught on the Moorpark Campus. The classes taught abroad meet State of California requirements concerning transferability. General Education and Institutions. Financial assistance is available to qualified students.

Participants in these programs experience cultural diversity and gain insights not available in a domestic academic setting.

Students interested in participating in the study abroad program should contact the Counseling Office.
Graduation Requirements

As authorized by the Education Code and Title 5 of the Administrative Code of the State of California, Moorpark College and the Ventura County Community College District Governing Board confers the Associate in Arts Degree, the Associate in Science Degree, and Certificates of Achievement on students who provide the required transcripts, meet the respective requirements as shown below, and file with the appropriate college official a notice of intent to graduate or receive a certificate.

The graduation requirements shown below became effective on July 1, 1983, and will apply to all new students and to returning students who have not maintained continuous enrollment.

A student remaining in continuous enrollment in regular sessions (fall and spring semesters; summer session not counted), at one or more of the colleges of the Ventura County Community College District (VCCCD) or at any other nationally accredited college or university, may meet the VCCCD graduation requirements in effect at the time of his or her entering or at any time thereafter. This applies only to graduation requirements and to the remedial course work.

Continuous enrollment is defined as attendance in at least one semester each calendar year. Any academic record symbol entered on a transcript (A through F, CR, NC, I, RD, W) shall constitute enrollment or attendance.

A student who has not maintained continuous enrollment is considered to be under new requirements unless the student is granted a petition/waiver for extenuating circumstances. This petition must be initiated by the student through a college counselor and approved by the appropriate dean or designee.

Students must be aware that other governing agencies impose more restrictive limitations concerning the definitions of continuous enrollment or continuous attendance. Some agencies define continuous enrollment as remaining in attendance both fall and spring semesters. Some will not accept selected academic record symbols (such as W’s). Those affected by more restrictive guidelines include: students receiving financial aid and international students.

Associate Degrees
A. BASIC REQUIREMENTS

I. Completion of at least 60 semester units of college course work with a cumulative Grade Point Average (GPA) of not less than 2.00.

II. Completion of all courses (at least 18 semester units) required for a major in a specified field of study (curriculum pattern) as described in the catalog.

III. Completion of the last 12 semester units in residence at the college granting the degree selected from courses required for graduation, if in attendance at the time of qualifying for graduation. If the student designates a specific major, then at least 6 of the 12 units must be selected from major courses.

IV. Demonstrated competency in reading, written expression, and mathematics.

a. Reading - Satisfactory completion of Engl 50 or Engl 52 or Engl 02 or higher level course or a satisfactory score on the Reading Assessment test.

b. Written Expression - Satisfactory completion of Engl 2 or Engl 1A or satisfactory score on the English assessment test.

c. Math - Satisfactory completion of Math 1 or higher level course or satisfactory score on the Mathematics Assessment test.

B. GENERAL EDUCATION REQUIREMENTS

I. Specific Associate in Arts and Associate in Science Degrees.

a. Natural Sciences - a minimum of 6 units

(1) One course in a Biological Science

(2) One course in a Physical Science

b. Social Sciences - a minimum of 6 units

(1) One course in American History or Institutions
(2) One other course in Social and Behavioral Sciences
  c. Humanities - a minimum of 6 units
     (1) One course in Fine or Performing Arts
     (2) One other course in Humanities
  d. Language and Rationality - a minimum of 6 units
     (1) One course in English Composition
     (2) One course in Communication or Analytical Thinking
  e. Health/Physical Education - a minimum of two courses
     (1) One or more courses in the area of health
         (a minimum of 2 units)
     (2) One course in Physical Education activity or Dance Activity class
  f. Ethnic/Women's Studies - one course which cannot be double-counted to satisfy other General Education Requirements above.

II. General Liberal Arts and Sciences A.A. Degree.
In addition to the General Education requirements listed above, completion of at least 12 additional units selected as follows: 9 units from the natural sciences and/or social and behavioral sciences and/or humanities and/or language and rationality areas and 3 units from the designated ethnic/women's studies course list (cannot be "double counted"). Completion of the degree requires a total of at least 36 units in the four areas as well as two courses from the physical education/health area.

Transfer Students - General Liberal Arts and Sciences (A.A.) Degree Options
All transfer students may earn a General Liberal Arts and Sciences degree by doing one of the following:
I. Completing the college's General Liberal Arts and Sciences A.A. degree pattern above, or
II. Completing at least 36 units of course work selected from the General Education/Breadth pattern of a transfer institution, and/or from transfer courses required in preparation for the student's selected major.
At a minimum, the 36 units must include General Education courses:
A. Natural Sciences - a minimum of 3 units
B. Social and Behavioral Sciences - a minimum of 3 units
C. Humanities - a minimum of 3 units
D. Language and Rationality - a minimum of 6 units
   1. English Composition - one course
   2. Communication or Analytical Thinking - one course
E. Health/Physical Education - a minimum of two courses
   1. Health Education - one or more courses -a minimum of two units
   2. One course in a Physical Education or Dance Activity class
F. Ethnic/Women's Studies - one course which cannot be "double counted" to satisfy other General Education requirements above.

Courses Designated to Meet
Associate Degree Requirements*
A. Natural Sciences
   (1) Biological Science: Anth 1; Biol 1, 2A, 3, 5, 16, 17; Bot 1; Env Sc 2, Zoo 1.
   (2) Physical Science: Astron 1 1L, 2; Chem 1A, 12, 13, Env Sc 1, 3, 20; Geog 1, 5; Geol 1, 2L, 3, 5, 21, 41, 61; Phy Sc 1/1L; Phl 1, 1L, 5, 5L, 10A/10AL, 20A/20AL.
B. Social Sciences
   (1) American History or Institutions: Ch St 4; Hist 2, 3, 4, 5, 6, 7A, 7B, 12, 14; Hum 1; Pol Sc 1, 3; Urban 1A.
   (2) Social and Behavioral Sciences: Anth 2, 3, 4, 6, 7, 9, 11; Bus 30, 42; CD 30; Ch St 1, 2, 4; Econ 1, 30; EATM 4; Geog 2, 3, 4, 7, 10; Hist 1A, 1B; 2A, 2A, 4, 5, 6, 7A, 7B, 8, 9, 12, 14; Hum 19, 42; Pol Sc 1, 2, 3, 4; Psych 1A, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 30; Soc 1, 2, 4, 5, 6, 7, 8; Urban 1A, 1B.
C. Humanities
   (1) Fine or Performing Arts: Art 1A, 1B, 1C, 2, 4A, 8A, 12A, 14A, 15A, 19; Dance 1A; Engl 10A; Hum 2, 3, 4, 6, Mus 1, 6, 7, 8, 9A, 9B, 10, 12, 15; Photo 1A, 2; RT 9; Tha 1A, 2A, 4A, 4B, 8.
   (2) Humanities: Art 1A, 1B, 1C, 2; Bus 42; Dance 1A; Engl 1B, 13A, 13B, 14, 15A, 15B, 17, 18, 19, 20, 21, 29A, 29B, 30, 31, 33, 45, 46; Fr 1, 2, 3, 4; Ger 1, 2, 3, 4; Hum 1, 2, 3, 4, 5, 6, 10A, 10B, 18, 19, 42; Ital 1, 2, 2; Japan 1, 2, 3; Journ 1; Mus 6, 7, 8, 9A, 9B; Phil 1, 2, 3, 4, 6, 11, 12; Photo 1A, 2; RT 1; Sl 1, 2; Spn 1, 2, 3, 4, 41; Spch 1; Tha 1.
D. Language and Rationality
   (1) English Composition: Bus 26; Engl 1A, 2; Hum 1, 2; Journ 2.
   (2) Communication or Analytical Thinking: CIS 4A; CS 1/1L, 10A/10AL, 18A/18L; Engl 1B; Hum 1, 2; Journ 2; Math 3, 4A, 5, 6, 7, 10, 13, 14, 15, 16A, 25A; Phil 5, 7, 9; Spch 1, 7.
E. Health/Physical Education
   (1) HE 1 or 7, 2, 5, 10 A-Z, or NIS 1, 4.
   (2) Any PE course; or Dance course numbered 10A - 55.
F. Ethnic/Women's Studies
   Anth 2, 4, 6, 8; CD 36; ChSt 1, 2, 4; Engl 45, 46; Fr 1, 2, 3, 4; Ger 1, 2, 3, 4; Hist 2, 3, 4, 6, 8, 12, 14; Hum 18, 19; Ital 1, 2, 3; Japan 1, 2, 3; Psych 14; Sl 1, 2; Soc 2, 6, 7, 8; Spn 1, 2, 3, 4, 41.

NOTE: Double Counting: When a course(s) required for a specific major is also on the list of approved general education courses, the course(s) may be used to satisfy both major and general education requirements, after the student satisfies the minimum 18-unit requirement for the major.

Moorepark College offers designated Associate in Arts degrees in the following program areas:
Archaeology
Art
Behavioral Science
Biology
Business
Chemistry
Dance
Environmental Studies
International Studies
Mathematics
Music
Social Science
Theatre Arts - Acting
Theatre Arts - Directing
Moorepark College offers designated Associate in Science degrees in the following program areas:
Astrophysics
Biology
Business
Chemistry
Child Development
Computer Information Systems
Computer Science
Computerized Composition
Criminal Justice
Electronics Technology
Engineering
Environmental Science
Exotic Animal Training and Management
Geology
Graphic Design
Interior Design
Journalism
Network Engineer
Nursing Science
Photography
Photomjournalism
Physics
Printing Technology
Radio/Television
Radiologic Technology

Major Requirements Under Which a Student Graduates
A student remaining in continuous attendance and pursuing the same major at Moorpark College may elect to meet the major in effect either at the time of his or her entering the major, or at the time of his or her graduation from Moorpark College. This policy applies only to the requirements for courses in a major (Certificates of Achievement and designated Associated degrees) and does not apply to General Education requirements.

**Variance in Major Requirements**
Occasionally a student may have difficulty in completing exact major requirements as specified in the Moorpark College catalog due to circumstances beyond control of the student. Under exceptional circumstances, a student may file a Petition for Substitution or Waiver to seek approval from the appropriate college officials to substitute courses in designated major or in general education. The petition forms are available in the Counseling Center.

**Guidelines for Additional Degrees**
Any college in the Ventura County Community College District will award an additional associate degree under the following conditions:
A. A student who has earned an associate degree at any accredited institution may earn an additional associate degree.
B. A student who holds a higher degree may earn an additional associate degree in a specific major.
C. General Education requirements earned for one degree may be applied toward another degree; any deficiencies in the current general education must be completed.
D. A candidate for an additional degree must complete twelve or more units of credit, in residence, concurrent with or after completion of requirements for the first associate degree. In addition, a candidate must be in attendance in the semester during which graduation requirements for the additional degree are completed.
E. A student must complete all the required courses listed in the catalog for the specific majors. In the event that unmet requirements for a specific major do not total 12 units, a student must complete the remaining units from electives listed under the major or from courses approved by the appropriate division.
All general education courses required for the specific degree must be completed.
F. In the case of degrees offering two or more options, a student may earn an additional degree within the same field by completing the requirements for that option (the additional degree) and all other requirements specified.
Appeals to the above policy may be submitted on a petition available in the Counseling Office for approval by the Vice President, Student and Educational Services. Waivers may be granted under extenuating circumstances or when there has not been sufficient opportunity to enroll in required courses.

**Certificates of Achievement**
A Certificate of Achievement will be granted in specific vocational areas to any student who meets the following requirements:
1. SCHOLARSHIP - A cumulative grade point average of not less than 2.0 in all college and university work attempted.
2. MAJOR - Completion of all courses required in a curriculum specified in the college catalog.
3. RESIDENCY - Completion of at least 12 semester units in residence at the college granting the certificate.
Moorpark College offers Certificates of Achievement in the following program areas:
- Accounting Applications
- Computer Information Systems
- Early Childhood Education
- Electronics Technology
- Exotic Animal Training and Management
- Interior Design
- Management
- Microcomputer Applications
- Music
- Network Engineer
- Printing Technology

**Information for Transfer Students**
Admission with advanced standing to the California public four-year colleges and universities is guaranteed to all students of the state who meet the specified minimum requirements. These requirements are, basically, the completion of 56 acceptable units of college level courses with a minimum overall grade point average (GPA) of 2.0 (for CSU) and 2.4 (for UC).

California's public four-year institutions are organized into two state-wide systems: nine campuses make up the University of California (UC) System and twenty campuses make up the California State University (CSU) System. To insure admission to either of the systems students are advised to make application during the announced application-filing periods. Admission is not guaranteed to any particular campus of either system; nor is acceptance in the major area of the student's first choice assured. Because specific majors at some campuses may be impacted, or may allow only limited enrollment, students may be redirected to campuses of their second choice for certain majors, or may need to change to a different major. Consequently, students are advised, and in some cases are required, to complete both the general education, or breadth, requirements and the lower-division courses required in the major before transferring to a four-year school. It is advantageous for students to choose the college or university of transfer as early in their educational careers as possible.

Private and out-of-state colleges and universities each have their own admission requirements which ordinarily differ from those of California's public institutions. Students who plan to transfer to any school whether public or private, in-state or out-of-state, should consult the catalog of that particular school and consult with a counselor.

**Transfer Requirements in General Education**
General education, or breadth, requirements for a few of the four-year colleges and universities are shown on the immediately succeeding pages of this catalog. The requirements are shown for those institutions to which a majority of Moorpark College students ultimately transfer. Consequently, the patterns of courses selected are those which satisfy the schools of the California State University system and the campuses of the University of California along with nearby California Lutheran University at Thousand Oaks.

Students are cautioned to refer to the catalogs of the colleges or universities to which they intend to transfer and to consult with a counselor, particularly for schools in California's public systems not shown here and for private and out-of-state institutions.

**Intersegmental General Education Transfer Curriculum**
The IGEC is a series of courses that community college students can use to satisfy lower-division general education requirements at any CSU or UC campus. The IGEC will provide an option to the California State University General Education Requirements.

The Intersegmental General Education Transfer Curriculum will permit a student to transfer from a community college to a campus in either the California State University or the University of California system without the need, after transfer, to take additional lower-division general education courses to satisfy campus General Education requirements.

Completion of the IGEC is not a requirement for transfer to a CSU or UC, nor is it the only way to fulfill the lower-division, gen-
eral education requirements of the CSU or UC prior to transfer. Students may find it advantageous to take courses fulfilling CSU's general education requirements or those of a particular UC campus. (Advanced Placement credit may be applied only to the first course in a sequence.)

Area 1: English Communication
CSU: 3 courses required, one from each group below.
UC: 2 courses required, one each from Group A and B.
Group A: English Composition, 1 course, 3 semester units.
   Engl 1A
Group B: Critical Thinking -- 1 course, 3 semester units.
   Engl 01B, Engl 1C, Phil 5
Group C: Oral Communication (CSU requirement only), 1 course, 3 semester units.
   Spch 1, 2

Area 2: Mathematical Concepts and Quantitative Reasoning
1 course, 3 semester units.

Area 3: Arts and Humanities
At least 3 courses, with at least one from the Arts and one from the Humanities. 9 semester units.
   Arts: Art 1A, 1B, 1C, 2; Dance 1A; Hum 3, 4, 5, 6**, 16; Mus 1**, 6, 7, 8, 9A, 9B; Photo 2; ThA 1, 4A, 4B.
   Humanities: Engl 1B, 13A, 13B, 14, 15A, 15B, 17, 18, 19, 20, 21, 29A, 29B, 30, 31, 33, 45, 46; Fr 3, 4; Ger 4; Hist 1A, 1B; Hum 10A, 10B; Ital 3; Japan 3; Phil 1, 2, 3, 4, 6, 11, 12; Spn 3, 4.

Area 4: Social and Behavioral Sciences
At least 3 courses from at least 2 disciplines or an interdisciplinary sequence. 9 semester units.
   Anth 2, 3, 4, 6, 7, 9, 11; Ch St 1, 2, 4, 8; Econ 1, 2; Geog 2, 3, 4, 7, 10; Hist 1A*, 1B*, 3, 4, 5**, 6, 7A**, 7B**, 8, 9, 9, 10, 12, 14, 15, 16; Pol Sc 1, 2, 3, 4, 8, 11; Psych 1A, 4, 5, 7, 8, 9, 13, 14; Soc 1, 2, 5, 7, 8; Urban 1A.

Area 5: Physical and Biological Sciences
At least 12 courses, one Physical Science course and one Biological Science course; at least one must include a laboratory (indicated by "L" in parentheses). 7-9 semester units.
   Physical Sciences: Astron 1, 1L(L); Chem 1A(L), 1B(L), 12U**, 13(L)**, Env Sc 1(L); Geog 1, 1L(L), 5, 5L(L); Geol 1(L), 2, 2L(L), 3, 5, 21; Phy 1/1L(L)**, 10A/10AL(L)**, 10B/10BL(L)**, 10B/20BL(L); Phys Sc 1, 1L(L)**.
   Biological Sciences: An 1(L)**; AnPhys 1, 1L(L); Anth 1; Biol 1(L)**, 2A(L), 2B(L), 3(L), 16, 17; Bot 1(L); Env Sc 2(L); Micro 1(L); Phys 1(L)**; Psych 1B; Zoo 1(L).

Language other than English (UC requirement only)
Complete 2 years of the same foreign language of high school level work with a grade of "C" or better OR earn a score of 3 or higher on the Foreign Language Advanced Placement Test, OR 550 on the College Board Achievement Test in Foreign Language OR complete 4-5 units from the courses below:
   Fr 1, 2, 3, 4; Ger 1, 2, 3; Ital 1; Hebrew 1; Japan 1; Span 1**, 1A and 1B, 2, 3, 4.

*Courses designated with an asterisk may be counted in one area only.
**Indicates that transfer credit may be limited by either UC or CSU or both. Please consult with a counselor for additional information.
(L) Designates courses with a laboratory.

California State University System
Students admitted to the CSU system will be expected to possess basic competence in the English language and in mathematical computation. Each campus of that system must define appropriate entry level skills in the two subject areas and institute means for determining whether entering students possess such skills.

The CSU General Education-Breadth program calls for each student to complete a minimum of 48 semester units of requirements. Nine of those units must be at upper-division status is attained. At least nine of the 48 units must be earned at the campus granting the baccalaureate degree. Students should be aware that the 48-unit total is a minimum; some campuses of the CSU system may elect to exceed this minimum in their General Education-Breadth Requirements.

The minimum 48 semester units for General Education-Breadth Requirements are distributed according to the following pattern:
Area A: A minimum of nine (9) semester units in communication in the English language, to include both oral and written communication, and in critical thinking, to include consideration of common fallacies in reasoning.
Area B: A minimum of twelve (12) semester units to include inquiry into the physical universe and its life forms, with some immediate participation in laboratory activity, and into mathematical concepts and quantitative reasoning and their applications.
Area C: A minimum of twelve (12) semester units among the arts, literature, philosophy and foreign language.
Area D: A minimum of twelve (12) semester units dealing with human social, political, and economic institutions and behavior and their historical background.
Area E: A minimum of three (3) semester units in study designed to equip human beings for life-long understanding and development of themselves as integrated physiological and psychological entities.

Each campus of the CSU system will be adopting its own pattern of requirements to be met for graduation, consistent with the minimum of 48 semester units. All students who intend to transfer to one of the CSU campuses have the responsibility to become acquainted with the General Education pattern for the schools to which they intend to transfer. The General Education-Breadth requirements at California State University, Northridge, vary from the basic CSU system pattern in total minimum units (52 rather than 48) and in the number of areas of study (6 rather than 5).

The six areas of the CSU Northridge General Education requirements are defined as follows:
Section A: Basic Subjects, includes those areas of study which develop skills which are essential in pursuing a university education.
Section B: Social Sciences, as its purpose to familiarize the student with the kinds of questions to which social scientists address themselves and with the nature, scope and limits of the social science disciplines.
Section C: Natural Sciences, is designed to introduce the student to some of the fundamental scientific principles and to an understanding of the scientific method of inquiry.
Section D: Humanities, is designed to acquaint the student with the study of literature, the fine arts, and philosophy and religion.
Section E: Applied Arts and Sciences, is designed to develop the students' perspective of the role of the applied arts and sciences in the solution of current issues and problems.
Section F: Comparative Cultural Studies, is designed to give students an acquaintance with their own cultural heritage and also to give them a sympathetic understanding of the cultures of other nations and of minority groups within this nation.

Students will select a minimum of 52 units at CSUN in accordance with the pattern below:
Minimum CSUN General Education in the above areas are:
Section A: Basic Subjects ........................................... 12 units
Section B: Social Sciences .......................................... 9 units
Section C: Natural Sciences ......................................... 9 units
Section D: Humanities ................................................ 9 units
Section E: Applied Arts and Sciences .......................... 4 units
Section F: Comparative Cultural Studies ................... 9 units

Moorpark College may certify a maximum of 39 semester units of lower-division General Education-Breadth requirements, with course work to be taken in five discrete areas that parallel the CSU pattern of distribution. The Moorpark College pattern of distribution maintains equal units among Areas A through D.

It is important that students understand that they are not required to follow Moorpark College's pattern of area units in order to satisfy the requirements at the CSU campus to which they transfer.
Because there are upper-division as well as lower-division units required for the baccalaureate degree students may find more flexibility in their courses of study by not following Moorpark College’s pattern but rather by following the pattern of a particular CSU campus.

The Moorpark College distribution of the 39 lower-division units which may be certified follows the pattern shown below:

Area A: Communication/Critical Thinking 9 units
Area B: Natural Sciences/Mathematical Concepts ... 9 units
Area C: Arts, Literature, Philosophy and .................... 9 units
Area D: Social, Political and Economic Institutions ... 9 units
Area E: Self Understanding/Development ................... 3 units

The list of Moorpark College courses which may be used to satisfy the General Education requirements in the above five areas is shown following these important points to be kept in mind:

Pertinent points to keep in mind are:

1. No more than 39 semester units may be certified by Moorpark College. Should a student satisfy all the requirements in the five areas of the Moorpark College pattern, the college will certify to CSU institutions that the student has completed the minimum 39 lower-division units of the General Education-Breadth requirements.

2. Under the limitations set down by the CSU system, Moorpark College may certify no more than thirty (30) semester units in areas B through D inclusive.

3. Courses used to certify must be baccalaureate level and should have been completed at Moorpark College. However, Moorpark College may report completion of courses taken at other participating institutions provided all such courses would be certified by the institution offering them. Such courses shall be deemed to have been certified.

4. Although only 39 units may be certified by Moorpark College for the CSU General Education requirements, students may transfer a total of 70 units of baccalaureate level course work to any CSU system campus.

5. Students who plan to attend one of the campuses of the University of California or a private or out-of-state school consult the catalog of the particular school to determine the course work needed to meet General Education requirements at that institution.

6. Although it is not necessary for a student to complete an Associate Degree in order to transfer to a four-year school, many of the courses taken to satisfy Associate Degree requirements are transferable and, in many cases, may be used to meet the General Education requirements.

7. For additional information regarding California State University system general education requirements students should consult a counselor and check the CSUN Transfer Card.

8. Courses taken in the discipline of a student’s major normally may not be used to fulfill General Education requirements.

9. The courses listed are subject to potential changes by any of the schools of the CSU system.

Area A: Communication/Critical Thinking 9 units: One course from each group.

A1 - Oral Communication
Spc1, 2

A2 - Written Communication
Engl 1A

A3 - Critical Thinking
Engl 1C
Phi 5, 7, 9
Spc1

Area B: Natural Sciences/Mathematical Concepts
9-12 units: One course from each group, including one laboratory course. (Note: (L) following a course number indicates the course includes a laboratory and meets the lab requirement.)

B1 - Physical Science
Astron 1, 1L, 2
Chem 1A(L), 1B(L), 12(L), 13(L)

Env Sc 1(L), 3
Geog 1, 1L, 5, 5L
Geol 1(L), 2, 2L, 3, 5, 21, 41, 61
Phy Sc 1/1L
Ph 1, 1L, 5, 5L, 10A/10AL, 10B/10BL, 20A/20AL, 20B/20BL

B2 - Life Science
An 1(L)
Anth 1
Biol 1(L), 2A(L), 2B(L), 3(L), 5(L), 16, 17
Bot 1(L)
Env Sc 2(L)
Micro 1(L)
Phys 1(L)
Psych 1B
Zoo 1(L)

B3 - Mathematical Concepts
Math 5, 6, 7, 8, 13, 14, 15, 16A, 16B, 25A, 25B

Area C: Arts, Literature, Philosophy, and Foreign Languages 9 units: With at least one course in the Arts and one in the Humanities.

C1 - Arts
Art 1A, 1B, 1C, 2, 8A, 12A
Dance 01A, 10A, 11A, 12A, 14A
Hum 2, 3, 4, 5, 6
Mus 1, 6, 7, 8, 9A, 9B, 10, 21
Photo 1A, 2
ThA 1, 2A, 4A, 4B

C2 - Humanities
Engl 18, 19A, 13A, 13B, 14, 15A, 15B, 17, 18, 19, 20, 21, 29A, 29B, 30, 31, 33, 45, 46
Fr 1, 2, 3, 4
Ger 1, 2, 3, 4
Hist 1A, 1B
Hum 10A, 10B, 18
Ital 1, 2, 3
Japan 1, 2, 3
Phi 1, 2, 3, 4
Spn 1, 1A, 1B, 1C, 3, 4, 41

Area D: Social, Political and Economic Institutions and Behavior; Historical Background
9 units: With courses taken in at least two disciplines.

D1 - Anthropology and Archaeology
Anth 2, 3, 4, 6, 7, 9, 11

D2 - Economics
Econ 1, 2

D3 - Ethnic Studies
Ch St 1, 2, 4
Hist 3, 14

D4 - Gender Studies
Hist 14
Hum 18, 19

D5 - Geography
Geog 2, 3, 4, 7, 10

D6 - History
Ch St 4
Hist 1A, 1B, 3, 4, 5, 6, 7A, 7B, 8, 9, 10, 12, 14, 16

D7 - Interdisciplinary Social or Behavioral Science
Bus 42
Hum 42
Journ 1
Phil 3
RT 1

D8 - Political Science, Government and Legal Institutions
Pol Sc 1, 2, 3, 4, 11
Urban 1A, 1B

D9 - Psychology
Psych 1A, 3, 4, 5, 7, 8, 9, 11, 13, 14, 30; Soc 5

D10 - Sociology and Criminology
Soc 1, 2, 4, 5, 6, 7, 8
Area E: Self Understanding/Development
3 units.
(No more than 1.5 units can be met by a PE activity course.)

CD 30
HE 1, 2, 5, 7
Hum 1
NIS 1, 4
PG 2
PE 1A, 2A, 2B, 3, 4, 4, 6A, 7, 8, 9, 11A, 13, 20A, 21,
26, 27, 28, 30, 38
Psych 1A, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 30
Soc 5, 6
Spor 4
Satisfaction of Title V, Section 40404, requirements in United
States History, Constitution and American Ideals. (One course is
to be taken from the area of History and one course from the area
of Government.)

History
Ch St 4
Hist 3, 4, 5, 6, 7A, 7B, 12, 14
Government
Pol Sc 1, 3
Urban 1A

University of California, Los Angeles
College of Letters and Science
All entering students have the option of fulfilling the general
ing education requirements as described below, or the Intersegmental
General Education Transfer Curriculum.

Basic Proficiency Levels

English Composition -- Engl 1A or 1B with a grade of at least C or
AP score of 4 or 5.

Quantitative Reasoning -- One course from: CS 10, 18; Math 7, 14,
15, 16A, 16B, 25A, 25B, 25C, 30, 31, 33, 35; Phil 9; or a Math SAT
score of 500 or a CEEB Math score of 550.

Foreign Language -- One course from: Fr 2; Ger 2; Span 2.

General Education Requirements

Physical sciences -- Three courses or eight semester units, at
least one course must have a lab component (for Physical Science
majors, only one course is required).
Astron 1, 1L; Chem 1A, 1B, 8, 8L, 12, 13; Env Sc 1; Geog 1,
1L, 5, 5L; Geol 1, 2, 2L, 3, 4, 5; Math 14, 16A, 16B, 25A, 25B;
Phys 1/1L; Ph 1, 10A/10AL, 10B/10BL, 20A/20AL, 20B/20BL,
20C/20CL.

Life Sciences -- Three courses or eight semester units, at least
one course must have a lab component (for Life Science majors,
only one course is required).

An 1; Anth 1; Biol 1, 2A, 2B, 3, 16, 17; Bot 1; Geog 7; Geol 5;
Micro 1; Phys 1; Psych 1B Zoo 1.

Social Sciences -- Four courses: Two from Historical Analysis and
two from Social Analysis.

Historical Analysis -- (Historical Analysis majors are not required
to satisfy this area.)
Ch St 4; Hist 1A, 1B, 3, 4, 5, 6, 7A, 7B, 9, 10, 15, 16; Hum 1.
Social Analysis -- (Social Analysis majors are not required
to satisfy this area.)
Anth 2, 3; Ch St 1, 8; Econ 1, 2, 4; Env Sc 2; Geog 2, 3, 4,
7; Hum 19; Pol Sc 1, 2, 3, 4, 7, 8, 11; Psych 1A; Soc 1, 6;
Urban 1A, 1B.

Humanities -- Four courses: One from Literature. No more than
two from any other subgroup. (Humanities majors are required to
take only one course, in addition to a literature course, for a total of
2 courses.)

Literature -- Engl 13A, 13B, 14, 15A, 15B, 17, 18, 19, 20, 21,
30, 31, 33.

Philosophy -- Phil 1, 2, 3, 11.

Language and Linguistics -- One semester of foreign language
course 3 or above.

Culture & Civilization -- Anth 4, 6, 9; Ch St 2; Hum 10A, 10B;
Spn 6.

Arts -- Art 1A, 1B, 1C, 2; Engl 20; Hum 2, 3, 4, 5, 6, 18; Mus 7,
8, 9A, 9B; Tha 1, 4A, 4B.

American History and Institutions -- This requirement does not
count as part of the 32-credit minimum. One of the following courses:
Ch St 8; Hist 3, 4, 5, 6, 7A, 7B; Pol Sc 3.

32 Semester Units Must Be Completed. Courses from the major
department are not applicable. Required major preparatory courses from
departments other than the major may be applied. Students need not take
two from the group or subgroups which includes their major.

University of California, Los Angeles
School of the Arts

Students applying to the School of the Arts have the option of
completing either the Intersegmental General Education Transfer
Curriculum (recommended) or the General Education Require-
ments of the School.

The following courses will satisfy the new General Education
Requirements for the School of the Arts.

English Composition
Engl 1A with a minimum grade of C or an AP score of 4. This
course may not be taken on a Pass/No Pass basis.

Critical Reading and Writing
Engl 1B with a minimum grade of C or an AP score of 5. This
course may not be taken on a Pass/No Pass basis.

Foreign Language
May be met by one of the following methods:
(1) AP score of 3, 4, or 5 in French, German or Spanish;
(2) completing one college-level foreign language course

equivalent to UCLA's level 3 or above with an average

grade of C or better;
(3) presenting a UCLA foreign language proficiency examina-
tion score indicating competency through level 3.

NOTE: Foreign students may petition to use an advanced
course in their native tongue for this requirement. A student
whose entire secondary education has been taken in a lan-
guage other than English may petition to exempt from this
requirement.

Courses to satisfy this requirement are:
Fr 2; Ger 2; Ital 2; Span 2.

Mathematics
One course in mathematics, statistics or an introductory course
in computers.

CIS 1; Math 14, 15, 16A, 16B, 20, 25A, 25B, 25C.

Science
Two courses from different departments in Physical or Biologi-
cal Science.

An 1; AnPhys 1, 1L; Anth 1; Astron 1L; Biol 1, 2A, 2B, 3,
5, 16, 17; Bot 1; Chem 1A, 1B, 5, 8L, 12, 13; Env Sc 1;
Geog 1, 5; Geol 1, 2, 3, 4, 5; Micro 1; Phys 1; Psych 1B;
Zoo 1.

Social Science
Three courses, with at least one from each division.

Group A: Economics, History, Political Science
Ch St 1, 4, 8; Econ 1, 2, 4; Hist 1A, 1B, 3, 4, 5, 6, 7A, 7B, 9,
10, 15, 16; Hum 1; Pol Sc 1, 2, 3, 4, 7, 8, 11.

Group B: Anthropology, Geography, Psychology, Sociology,
Women's Studies
Anth 2, 3; Geog 2, 3, 4, 7; Hum 19; Psych 1A; Soc 1, 6.

Humanities
Three courses, to include at least one in three of the four divi-
sions.

Group A: Arts
Art 1A, 1B, 1C, 2 (not for Art or Design majors); Hum 2 (not
for Art or Design majors). 3, 4, 5, 6, 18; Mus 7, 8, 9A, 9B
(not for Ethnomusicology or Music majors); Tha 1, 4A, 4B.

Group B: Culture and Civilization
Anth 4, 6, 9; Ch St 2; Hum 10A, 10B.

Group C: Literature

Group D: Philosophy/Religion
Phil 1, 2, 3, 11.

28
University of California, Santa Barbara

College of Letters and Sciences
Below are Moorpark College courses which satisfy UC Santa Barbara general education requirements for the College of Letters and Science.

Area A: English Reading and Composition - 2 courses required

English 1A and 1B or 1C

Area B: Foreign Language - 1 course required

French 2, German 2, Italian 2, Spanish 2.

Area C: Science, Mathematics and Technology - 2 courses required

Anatomy/Physiology 1; Anatomy 1; Anthropology 1; Astronomy 1, 2; Biology 1, 2a, 16; Botany 1; Chemistry 1A, 12; Computer Information Systems 4A; Computer Science 2, 10, 18, 19, 30; Geography 1; Geology 1, 2, 5; Mathematics 15, 16a, 25A; Physics 1, 10A, 20A; Physiology 1, Zoology 1.

Area D: Social Sciences - 2 courses required

Anthropology 2, 3, 4, 6; Chicano Studies 2, 4; Economics 1, 2; Geography 2; History 3, 4, 5, 6, 7A, 7B, 12; Political Science 1, 2, 3, 4; Psychology 1A, 4, 5, 8; Sociology 1, 5

Area E: Civilization and Thought - 1 two-course sequence required

History 01A and HIST 01B

Area F: Arts - 2 courses required for BA, 1 course for BS

Art 1A, 1B, 2, 3; Humanities 3, 4, 5, 6; Music 6, 7, 8, 9A, 9B; Photography 2; Theatre Arts 1, 4A, 4B
(not required for BFA or BM degrees)

Area G: Literature - 2 courses required for BA, 1 course for BS, BM, BFA degrees


Ethnicity Requirement - 1 course required

Anthropology 4, 6; Chicano Studies 1, 2, 4, 8; History 3, 4, 6; Political Science 7, 8; Sociology 6

American History and Institutions - 1 course required

Anthropology 9; Chicano Studies 1, 2, 4, 8; Criminal Justice 1; Economics 4; English 13A, 13B; History 3, 4, 5, 6, 7A, 7B, 8, 12; Political Science 1, 3, 7, 8, 11; Sociology 2, 6, 8; Urban Studies 1A

Additional Information

Courses used to satisfy general education requirements may simultaneously satisfy applicable major requirements. Courses used to satisfy Ethnicity, American History and Institutions, Non-Western Culture, and Qualitative Relationships requirements may simultaneously apply to Areas C through G of general education.

Foreign Language requirement may also be satisfied in one of the following ways:

1. The completion in high school of the third year of a foreign language with at least a C average in the third year.
2. A foreign language SAT II score of 500 or higher.
3. An Advanced Placement Examination in foreign language, passed with a score of 3, 4, or 5.
4. The completion in college of foreign language quarter course 3 or semester course 2. NOTE: Students who satisfy the foreign language requirement in this manner will be required to complete 4 additional overall and L&S units. See the General Catalog for details.
5. Pass a non-credit placement examination at UCSB after transfer.

American History and Institutions requirement may also be satisfied in one of the following ways:

1. After transfer, passing a non-credit exam in this subject offered by the UCSB Department of History the first week of each quarter.
2. A score of 3 or higher on the Advanced Placement Examination in American History or American Government.

Non-Western Culture

This requirement is considered satisfied if a student transfers with fewer than 4 omissions in Areas D, E, F, and G. Courses such as cultural anthropology, North American Indians, eastern religions and eastern philosophy satisfy this requirement. Courses that focus on the art, culture, history, literature, music or politics of non-western peoples will also apply. Courses must be at least three semester units.

Quantitative Relationships

This requirement is considered satisfied if Area C is entirely completed prior to transfer. Otherwise, courses in calculus, statistics, astronomy with lab, chemistry with lab, physics with lab, or physical geology with lab will apply.

Writing Requirement

This requirement is considered satisfied if Areas D, E, F, and G are fulfilled upon transfer to UCSB. Otherwise, the number of courses needed is determined by the number of omissions in these areas. Transfer courses do not apply, but the requirement is reduced for transfer students, at the time of admission, to the number of omissions in subject areas D through G.
California Articulation Number (CAN)
The California Articulation Number (CAN) System identifies many transferable, lower division, major preparation courses commonly taught on California college and university campuses.
The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus. For example: CAN ECON 2 on one campus will be accepted for CAN ECON 2 on every other participating campus that has also qualified CAN ECON 2. Each campus retains its own numbering system, but adds the CAN designation parenthetically in its publication.
Check with the Counseling Office for current listing of CAN qualified courses.

Courses Qualified

<table>
<thead>
<tr>
<th>California Articulation Number</th>
<th>Moorpark College Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAN AJ 2</td>
<td>CJ 1, Intro to Criminal Justice</td>
</tr>
<tr>
<td>CAN AJ 4</td>
<td>CJ 2, Concepts of Criminal Law</td>
</tr>
<tr>
<td>CAN AJ 6</td>
<td>CJ 4, Legal Aspects of Evidence</td>
</tr>
<tr>
<td>CAN AJ 8</td>
<td>CJ 11, Criminal Investigation</td>
</tr>
<tr>
<td>CAN ANTH 2</td>
<td>ANTH 1, Physical Anthropology</td>
</tr>
<tr>
<td>CAN ANTH 4</td>
<td>ANTH 2, Cultural Anthropology</td>
</tr>
<tr>
<td>CAN ART 2</td>
<td>ART 1A, Art History</td>
</tr>
<tr>
<td>CAN ART 4</td>
<td>ART 1B, Art History</td>
</tr>
<tr>
<td>CAN ART 6</td>
<td>ART 8A, Beginning Ceramics</td>
</tr>
<tr>
<td>CAN ART 8</td>
<td>ART 12A, Drawing and Composition</td>
</tr>
<tr>
<td>CAN ART 10</td>
<td>ART 16A, Painting</td>
</tr>
<tr>
<td>CAN ART 14</td>
<td>ART 4A, Color and Design</td>
</tr>
<tr>
<td>CAN ART 16</td>
<td>ART 4B, Three-Dimensional Design</td>
</tr>
<tr>
<td>CAN ART 20</td>
<td>ART 15A, Beginning Printmaking</td>
</tr>
<tr>
<td>CAN BIOL 2</td>
<td>BIOL 2A, General Biology I</td>
</tr>
<tr>
<td>CAN BIOL 6</td>
<td>BOT 1, General Botany</td>
</tr>
<tr>
<td>CAN BIOL 10</td>
<td>AN 1, General Human Anatomy</td>
</tr>
<tr>
<td>CAN BIOL SEQ A</td>
<td>BIOL 2A + 2B, General Biology I &amp; II</td>
</tr>
<tr>
<td>CAN CHEM 2</td>
<td>CHEM 1A, General Chemistry</td>
</tr>
<tr>
<td>CAN CHEM 4</td>
<td>CHEM 1B, General Chemistry</td>
</tr>
<tr>
<td>CAN CSCI 4</td>
<td>CS 18+16L, Computer Programming-FORTRAN</td>
</tr>
<tr>
<td>CAN CSCI 8</td>
<td>CS 4A, Computer Programming I: COBOL</td>
</tr>
<tr>
<td>CAN CSCI 10</td>
<td>CS 30 + 30L, Assembly Language + Lab</td>
</tr>
<tr>
<td>CAN DRAM 8</td>
<td>THA 2A, Beginning Acting</td>
</tr>
<tr>
<td>CAN ECON 2</td>
<td>ECON 2, Principles of Macroeconomics</td>
</tr>
<tr>
<td>CAN ECON 4</td>
<td>ECON 1, Principles of Microeconomics</td>
</tr>
<tr>
<td>CAN ENGL 2</td>
<td>ENGL 1A, English Composition</td>
</tr>
<tr>
<td>CAN ENGL 4</td>
<td>ENGL 1B, Literature: Critical Thinking/Comp</td>
</tr>
<tr>
<td>CAN ENGL 6</td>
<td>ENGL 10A, Creative Writing</td>
</tr>
<tr>
<td>CAN ENG 8</td>
<td>ENGL 15A, Survey of English Literature</td>
</tr>
<tr>
<td>CAN ENGL 10</td>
<td>ENGL 15B, Survey of English Literature</td>
</tr>
<tr>
<td>CAN ENGL 14</td>
<td>ENGL 13A, Major American Writers I</td>
</tr>
<tr>
<td>CAN ENGL 16</td>
<td>ENGL 13B, Major American Writers II</td>
</tr>
<tr>
<td>CAN ENGR 2</td>
<td>ENGR 4, Engineering &amp; Design/CAD</td>
</tr>
<tr>
<td>CAN ENGR 4</td>
<td>ENGR 12, Engineering Materials</td>
</tr>
<tr>
<td>CAN ENGR 6</td>
<td>ENGR 20, Electrical Engineering Fund + Lab</td>
</tr>
<tr>
<td>CAN ENGR 8</td>
<td>ENGR 16, Engin. Statics &amp; Strength of Materials</td>
</tr>
<tr>
<td>CAN GEOG 2</td>
<td>GEOG 1, Our Physical Environment</td>
</tr>
<tr>
<td>CAN GEOG 4</td>
<td>GEOG 2, Cultural Environment</td>
</tr>
<tr>
<td>CAN GEOL 2</td>
<td>GEOL 2+2L, Physical Geology + Lab</td>
</tr>
<tr>
<td>CAN GOVT 2</td>
<td>POL SC 3, American Government &amp; Politics</td>
</tr>
<tr>
<td>CAN H EC 2</td>
<td>NTS 1, Nutrition</td>
</tr>
<tr>
<td>CAN HIST 2</td>
<td>HIST 1A, An Intro to Western Civilization</td>
</tr>
<tr>
<td>CAN HIST 4</td>
<td>HIST 1B, An Intro to Western Civilization</td>
</tr>
<tr>
<td>CAN HIST 8</td>
<td>HIST 7A, Social &amp; Political History of the US</td>
</tr>
<tr>
<td>CAN HIST 10</td>
<td>HIST 7B, Social &amp; Political History of the US</td>
</tr>
<tr>
<td>CAN JOUR 2</td>
<td>JOUR 2, News Reporting and Writing</td>
</tr>
<tr>
<td>CAN JOUR 4</td>
<td>JOUR 1 OR RT 1, Media and Society</td>
</tr>
<tr>
<td>CAN MATH 8</td>
<td>MATH 6, Trigonometry</td>
</tr>
<tr>
<td>CAN MATH 10</td>
<td>MATH 7, College Algebra</td>
</tr>
<tr>
<td>CAN MATH 16</td>
<td>MATH 8, College Algebra &amp; Trigonometry</td>
</tr>
<tr>
<td>CAN MATH 18</td>
<td>MATH 25A, Calculus w/Analytic Geometry I</td>
</tr>
<tr>
<td>CAN MATH 20</td>
<td>MATH 25B, Calculus w/Analytic Geometry II</td>
</tr>
<tr>
<td>CAN MATH 22</td>
<td>MATH 25C, Calculus w/Analytic Geometry III</td>
</tr>
<tr>
<td>CAN MATH 24</td>
<td>MATH 35, Applied Differential Equations</td>
</tr>
<tr>
<td>CAN MATH 30</td>
<td>MATH 16A, Applied Calculus I</td>
</tr>
<tr>
<td>CAN MATH 32</td>
<td>MATH 16B, Applied Calculus II</td>
</tr>
<tr>
<td>CAN PHIL 2</td>
<td>PHIL 1, Introduction to Philosophy</td>
</tr>
<tr>
<td>CAN PHIL 4</td>
<td>PHIL 2, Values and Society</td>
</tr>
<tr>
<td>CAN PHIL 6</td>
<td>PHIL 7, Introduction to Logic</td>
</tr>
<tr>
<td>CAN PHYS 2</td>
<td>PH 10A + 10AL, General Physics I + Lab</td>
</tr>
<tr>
<td>CAN PHYS 4</td>
<td>PH 10B + 10BL, General Physics II + Lab</td>
</tr>
<tr>
<td>CAN PHYS 8</td>
<td>PH 20A + 20AL, Mechanics of Solids &amp; Fluids + Lab</td>
</tr>
<tr>
<td>CAN PHYS 12</td>
<td>PH 20B + 20BL, Electricity &amp; Magnetism + Lab</td>
</tr>
<tr>
<td>CAN PSY 2</td>
<td>PSYCH 1A, Introduction to Psychology</td>
</tr>
<tr>
<td>CAN SOC 2</td>
<td>SOC 1, Introduction to Sociology</td>
</tr>
<tr>
<td>CAN SOC 4</td>
<td>SOC 2, Social Problems</td>
</tr>
<tr>
<td>CAN SPAN 10</td>
<td>SPN 4, Intermediate Spanish II</td>
</tr>
<tr>
<td>CAN STAT 2</td>
<td>MATH 15, Introductory Statistics</td>
</tr>
</tbody>
</table>
Private or Out-of-State Schools

Students who are planning to enter one of California's many private four-year schools, or an out-of-state public or private school, should carefully check the general education requirements for that particular school. It is doubtful that either of the requirement patterns outlined for the two California public systems would be completely applicable at other institutions.

California Lutheran University

GENERAL TRANSFER INFORMATION
1. A maximum of 70 semester credits may be transferred from a community college.
2. Pass/Fail or Credit/No Credit courses may not be used to meet general education or major requirements. Credit by Examination will be allowed.
3. Both Bachelor of Arts and Bachelor of Science degrees are offered.
4. Most majors require at least 32 credits with 20-24 credits at the upper-division (Junior/Senior) level. Consult the CLU catalog for specific departmental requirements.
5. A personal, preliminary transfer evaluation may be obtained by contacting the Director of Transfer Programs at (805) 493-3135.
6. Courses which are technical, vocational or "personal enrichment" in nature are not transferable.

GENERAL EDUCATION REQUIREMENTS

Area I. Proficiencies

A. Written Communication
   1. Engl 1A
   2. Two courses; one must be upper division. (No Moorpark College equivalent available.) Those who transfer at the Junior or Senior level have only to complete the upper-division course in the student's major.

B. Oral Communication
   1. One course or passing score on the Oral Communication Proficiency Test to be taken at CLU (no credit given). Sphc 1, 2, 5, 7.

C. Foreign Language
   1. Two sequential courses in one foreign language or successful completion of a foreign language course at the third semester level. Fr 1-4; Ger 1-4; Itai 1-3; Japan 1-3; Spn 1-4.

D. Computer Competency
   Level 1: Waived for those students who have completed Engl 1A at Moorpark.

E. Mathematical Reasoning
   College level math course or qualifying score on the CLU Math Placement Test.

   OR
   Complete with a C or better at Moorpark: Math 5, 6, 7, 10, 13, 14, 15, 16A, 16B, 25A, 25B, 25C or above.

Area II. Perspectives

A. Humanities
   1. History - one course from: Any history course except Hist 22.
   3. Philosophy - one course from: Phil 1, 2, 3.
   4. Religion - two courses: Rel 100 at CLU and Phil 11 (waived for Junior level transfers).

B. Natural Sciences
   1. Two courses from different disciplines. One course must have a lab component. An 1; Biol 1, 2A, 2B, 3, 6; Bot 1; Chem 1A, 1B, 12, 13; Env Sc 1; Geog 1, 11; Geol 1, 2, 2L; Micro 1; Phys 1, and Physics with lab except 22; Zoo 1.

C. Social Sciences
   1. Two courses from different disciplines: Anth 2, 3, 4, 6; Econ 1, 2, 4, 30; Geog 2, 3, 4; Pol Sc 1-11 (Not California requirement); Psych 1-8; Soc 1-8.

D. Visual and Performing Arts

Area III. Cultures and Civilizations

A. Global Studies: The World and the West
   No Moorpark College equivalent available. However, this requirement is waived for those students entering with 45 or more units.

B. American Studies: American History and Politics
   1. One course from: Hist 3, 4, 5, 6, 7A, 7B, 12; Pol Sc 1, 3; Urban 1A. (Students may not use this course to meet an additional requirement.)

C. Gender and Ethnic Studies
   1. One course from: Anth 2, 4, 6, 9; Ch St 1, 2; Hist 12; Hum 19, 19; Pol Sc 7; Soc 6, 8.

Area IV. Integrated Studies

A. Freshman Cluster
   No Moorpark College equivalent. However, this requirement will be waived for those students who have completed Engl 1A before transferring, or have completed 28 transferable units.

B. Integrated Studies Capstone
   One upper-division course after transfer.

Pepperdine University/Seaver College

GENERAL STUDIES REQUIREMENTS

English Composition (2 courses)
   Engl 1A, 1B

Religion (2-3 courses)
   To be completed at Pepperdine. Two courses are required for all transfer students; a third is required for students entering with fewer than 60 transferable semester units.

Western Heritage (4 courses)
   1) Art 1A, 1B, 2; Hum 10A, 10B; Mus 8, 9A, 9B (one course)
   2) Hist 1A or 1B (one course)
   3) Two additional courses chosen from: Engl 15A, 15B, 30, 31, 33; Hist 1A, 13; Hum 10A, 10B

These four courses will fulfill Seaver's 3-course sequence. Students completing only one of the above prior to transfer will still need all three Seaver courses.

Non-Western Heritage (1 course)
   Anth 2; Hist 15, 16; Phil 11

American Heritage (2 courses)
   Two courses chosen from:
   1) Econ 1 or 2
   2) Hist 5, 7A, or 7B
   3) Pol Sc 1 or 3

Behavioral Science (1 course)
   Psych 1A; Soc 1

Foreign Language (1 course)
   Fr 3; Ger 3; Spn 3

First-year language study is also necessary for students who do not have the prerequisites to enroll in second-year foreign language.

Laboratory Science (1 course with laboratory)
   An 1; AnPhys 1+1L; Astron 1+1L, 2+1L; Biol 1, 2A, 2B, 3, 5, 14; Bot 1; Chem 1A, 1B, 8+8L, 12, 13; Env Sc 1, 2; Geog 1+1L, 5+5L; Geol 1, 2+2L, 4; Micro 1; Phy Sc 1+1L; Ph 1+1L, 10+10AL, 20A+20AL; Phys 1; Zoo 1

Mathematics (1 course)
   Math 5, 6, 7, 10, 13, 14, 15, 16A, 25A
Students needing a review of Intermediate Algebra should take it prior to transferring, as it is a prerequisite for all Seaver College math courses.

Speech & Rhetoric (1 course)
Sphc 1, 2

Freshman Seminar (0-1 course)
To be completed at Pepperdine by students entering with 29 or fewer transferable semester units; waived for non-freshmen transfer students.

Physical Education (4 activity courses)
Students entering with 29 or fewer transferable semester units must take PE 100 at Seaver as one of their courses; non-freshmen transfers may take any four activity courses. Students must complete a minimum of four PE activity courses; a maximum of 4 semester units or 6 quarter units will apply toward graduation.

University of La Verne

GENERAL TRANSFER INFORMATION

Students who have a high school diploma, or equivalent, are eligible for admission to the University of La Verne. Transfer students may enter La Verne at the beginning of any semester. A total of 128 semester units are required for the B.S. degree, 44 of which must be upper-division, plus the completion of a specific major, and the general education requirements.

The University of La Verne will accept up to 84 semester units of lower division, transferable credit. These may include military credit and credit by CLEP examination; however, persons with military credit must see the ULV counselor before using such credit toward the AA/AS degree.

All courses completed under the associate degree will be acceptable at La Verne. Students without the associate degree will have their work evaluated on a course-by-course basis for transferability. Without an AA or AS degree, courses with a grade of D will not transfer. With an AA or AS, courses with a grade of D will transfer, however courses with a grade of D cannot be used to satisfy general education and/or major requirements.

A course taken to satisfy one of General Education may NOT also be used to satisfy another area, but courses taken in the major may be used to satisfy General Education requirements. A grade of C or better is required to meet a specific requirement.

CAVEAT – These courses and requirements are subject to change. Students should consult a counselor regularly throughout the school year to receive the most current transfer information.

GENERAL EDUCATION REQUIREMENTS

Written English
Engl 1A and 1B.

Spoken English
One course from:
Sphc 2, 3, 5, 7, 10A/B/C/D.

Physical Education
Two different courses (not team sports)

Aesthetic Experience
One experiential class in art, music, theatre, photography, or creative writing OR two semesters of music ensemble or music lessons, modern dance or ballet.

Aesthetic: Art 1A/B, 2, 3, 4A/B/C, 8A/B, 9A/B, 12A/B, 13A/B/C/D, 14A/B, 15A/B/C/D, 16A/B/C/D, 23, 24; Engl 10A/B; Mus 8, 9A/B, 17, Photo 1A/B, 2, 3; ThA 2A/B/C/D, 9, 10, 16.

Instruction: Dance 10A/B/C/D, 11A/B/C/D, 12A/B/C/D, 13A, 14A/B/C/D, 20A/B/C, 30A/B, 51A/B/C/D; Mus 10, 12, 15, 16, 17, 18, 19, 20, 21, 25A/B/C/D, 26, 32, 36, 60X, 60K, 60P, 60T, 60V.

Mathematics
One course from:
Math 5, 7, 15, 16A/B.

Symbolic
One course from:
Programming: CS 1, 2, 10A/B/C, 18, 30.

Statistics: Math 15.
Elementary or Intermediate Foreign Language: Fr 1, 2, 3, 4; Ger 1, 2, 3, 4; Heb 1; Ital 1, 2; Japan 1, 2, Spn 1A/B, 2, 3, 4.
Logic: Phil 7, 9.
Music Theory: Mus 1.

Physical and Life Science
One course in Physical and one course in Life Science. One of the two courses must have a lab.
Physical Science: Astron 1, 1L, 2; Chem 1A/B, 8, 12, 13; Geol 1, 2, 2L, 3, 4, 5, 21, 41; Phy Sc 1L; Ph 1; 1L, 10A/10AL, 10B/10BL.
Life Science: An 1; AnPhys 1; Biol 1, 2A/B, 3, 16; Bot 1; Phys 1; Zoo 1.

U.S. History
One course from:
Hist 5, 7A/B.

World Civilization
One course from:
Anth 2, 7, Hist 9, 10, 15, 16, Phil 11.

Social Science
One course from:
Econ 1, 2, 4; Geog 2, 3; Hist 5, 7A/B; Pol Sc 1, 2, 3, 11.

Behavioral Science
One course from:
Anth 1; Psych 1A, 7; Soc 1.

Humanities
Six semester units from two different areas:
Literature-Language: Engl 13A/B, 14, 15A/B, 17, 18, 19, 20, 21, 29A/B, 30, 31, 33, 45, 46, 60A, 60W, Fr 3, 4; Ger 3, 4; Ital 3; Japan 3; Spn 3, 4.
Philosophy-Religion: Phil 1, 2, 3, 7, 11.
Art-Music-Theatre Appreciation: Art 1A/B, 2; Mus 7, 8, 9A/B.
ThA 1, 4A/B.
Humanities: Hum 1, 2, 3, 10A/B.

Transfer Curricula

The information on the following pages shows the requirements for advanced standing in selected majors at four-year institutions to which Moorpark College students normally transfer. Major requirements at other colleges and universities will be similar, but students should refer to the catalogs of the schools to which they expect to transfer and consult with a counselor for more complete information.

Each of the 22 campuses of the California State Universities and Colleges and the nine campuses of the University of California accepts the maximum of 70 semester units in transferable courses completed in a community college.

The curricula show those Moorpark College courses which may be used to meet the lower-division requirements for most of the majors selected by Moorpark students. This information is subject to change.

For Liberal Studies and Health Sciences majors please see the listing of courses under these headings in the Announcement of Courses section.

Anthropology
Major requirements for upper-division standing at:
California State University, Northridge: Anth 1, 2.
University of California, Berkeley: Anth 1, 2, 3.
University of California, Davis: (B.A.) Anth 1, 2, 3; Math 15; Geog 11L; (B.S.) Anth 1, 2, 3; Biol 2A/Bot 1; Chem 1A, 1B; Chem 8, 8L; Math 25A or Math 16A; Mat 15; Zoo 1.

Art
Major requirements for upper-division standing at:
California State University, Northridge: Art 1A, 1B, 4A, 4B, 12A, 13A, and 6-10 units of Art electives. (excluse Art 2)

UC Riverside: Art 1A, 1B; Photo 1A

Biology
Major requirements for upper-division standing at:
California State University, Northridge: (B.A.) Biol 2A, 2B, Chem 1A, 1B; Math 7; Ph 10A/10AL, 10B/10BL.
Select one of the following options for BS degree:
- Cellular and Molecular - Environmental - Microbiology;
- Medical Technology - Marine Biology.

**Business**
Major requirements for upper-division standing at:
California Lutheran University: (B.A.) - Bus 2A, 2B, 30; Econ 2; Math 14.
(B.S.) - Bus 2A, 2B, 2C; Econ 1, 2, Math 14.
California State University, Chico: Bus 2A, 2B, 2C, 33; Econ 1, 2;
Math 15, 16A or 25A. Additional requirements for options.
University of California: Berkeley: Bus 2A, 2B, CS 18/18L; Econ 1, 2;
Math 15, 25A, 25B, Foreign language through Level 2 (or three years of high school foreign language with "C" or better).
Engl 1A,1B,1C.
University of California, Riverside: Bus 2A, 2B, 2C, Econ 1, 2;
Math 25A, 25B, 31, 15, CIS 1, 1L.

**Chemistry**
Major requirements for upper-division standing at:
California State University, Northridge: (B.A.): Chem 1A, 1B; Math 16A, 16B; Ph 10A/10AL, 10B/10BL. (B.S.): Chem 1A, 1B;
University of California, Riverside: Chem 1A, 1B, Engl 1A, 1B or 1C; Math 25A, 25B, 25C; Ph 10AB with Labs or Ph 20ABC with Labs. (B.S.): Add Math 25C, 35; Ph 7A, 7B.

**Chicano Studies**
Major requirements for upper-division standing at:
California State University, Northridge: Ch St 2 (or Anth 4).
California State University, Fresno: Ch St 1 or 2

**Child Development**
Major requirements for upper-division standing at:
California State University, Northridge: Math 15; Phys 1 or Psych 1B. Up to 12 units of approved electives may apply in the major.
See counselor.
California State University, Fresno: CD 30, 39A, 42; Psych 1A; Soc 1.

**Computer Science**
Major requirements for upper-division standing at:
California State University, Fresno: CS 10/10L, 20/20L; Math 25A, 25B; Phil 5 or 7; Ph 10A/10AL, 10B/10BL or Ph 20A/20AL, 20B/20BL, 20C/20CL.
University of California, Riverside: CS 10A/10AL, 10B/10BL, 30/30L; Engr 20; Math 25A, 25B, 25C, 35; Chem 1A; Ph 20A/B/C with labs; Engl 1A, 1B or 1C.

**Criminal Justice**
Major requirements for upper-division standing at:
California Lutheran University: CJ 1, 2.
San Diego State University: CJ 1; Math 15; Soc 1, 2.

**Dance**
Major requirements for upper-division standing at:
University of California, Riverside: Dance 12A, 12B, 12C, 14A, 14B, 4 units from Dance 10A/B/C, 13A/B, 31A/B.
San Jose State University: AnPhys 1/1L; Dance 10C, 11C, 12C.

**Earth Science**
Major requirements for upper-division standing at:
California State University, Northridge: Chem 1A/1B; Geol 5; Geol 2; Math 15 or 16A or 25A; Ph 10A/10AL, 10B/10BL.

**Economics**
Major requirements for upper-division standing at:
California State University, Fresno: Econ 1, 2.
University of California, Los Angeles: Bus 2A, 2B; Econ 1, 2; Engl 1B; Math 15, 25A, 25B.

**Engineering**
Major requirements for upper-division standing at:
California State University, Northridge: Chem 1A; Engr 4, 12, 16*, 20/20L; Engl 1A; Math 25A, 25B, 25C, 35; Ph 20A/20AL, 20B/20BL; Chem 1B or Ph 20C/20CL.
*Engr 227L to be taken after transfer.

**English**
Major requirements for upper-division standing at:
California State University, Northridge: Option 1 - Literature: Engl 14, 19, 20, (3 units) from: Engl 13A or 13B, 15A, 15B. Option 2 - Writing: Engl 10A or 10B; and 3 units Engl 13A, 13B, 15A, 15B.
University of California, Davis: Engl 1A or 1B, 14, 15A, 15B.

**Environmental Science**
Major requirements for upper-division standing at:
California State University, Northridge: Environmental and Occupational Health Program: Biol 2A; Chem 1A and 1B or 12 and 13, 8, 8L; Math 7: Micro 1; Ph 10A/10AL, 10B/10BL; Phys 1; Psych 1A; Soc 1.
University of California, Riverside: Env Sc 1/1L; Engl 1A, 1B or 1C; Chem 1A, 1B; CIS 1, 1L or CS 1/1L; Math 7; PoliSci 3; Additional requirements for options in: Natural Science, Social Science, Soil Science, and Environmental Toxicology.
University of California, Santa Barbara: Environmental Studies: Econ 1; Env Sc 1, 2; Geog 1 or Geol 2, 2L. Social Science/Humanities emphasis: Anth 2; Chem 1A or 12; Math 15, 16A, 16B; Pol Sc 3. Natural Science emphasis: Biol 2A, 2B; Chem 1A, 1B; Math 15, 25A, 25B, 25C, 35; Ph 10A/10AL, 10B/10BL or Ph 20A/20AL, 20B/20BL.

**French**
Major requirements for upper-division standing at:
California State University, Fresno: Fr 1, 2, 3, 4.
California State University, Northridge: FRENCH: Engl 30 and 31.
Additional lower-division courses to be taken at CSUN.
University of California, Davis: Fr 1, 2, 3, 4; Hist 1A, 1B.

**Geography**
Major requirements for upper-division standing at:
California State University, Northridge: Select one course from each of the following categories: Geog 1 or 5. Human: Geog 2, 3, 4 or 7.
University of California, Davis: (B.S.) Biol 2A; Chem 1A, 1B; CS 1, 1L, or 10A/10AL; Math 15, 25A, 25B or Math 25A, 25B, 25C; Zoo 1 or Bot 1 or Geol 4 or Ph 10A/10AL, 10B/10BL.

**Geological Sciences**
Major requirements for upper-division standing at:
California State University, Northridge: (Geology option): Chem 1A, 1B; CS 10/10L; Geol 2, 3, Math 25A; Ph 10A/10AL, 10B/10BL or Ph 20A/20AL, 20B/20BL, and two courses from: Math 15, Math 25B, CS 10A/L, or Ph 20C/20CL. (Geophysics option): Chem 1A, 1B; CS 10/10L, 18/18L; Geol 2; Math 15, 25ABC, 35; Ph 20A/20AL, 20B/20BL; 20C/20CL.
University of California, Davis: Chem 1A, 1B; Geol 2, 2L, 3, 4; Math 25A, 25B, Ph 10A/10AL, 10B/10BL.

**German**
Major requirements for upper-division standing at:
California State University, Fresno: Ger 1, 2, 3, 4.
California State University, Northridge: GERMAN: Engl 30 and 31; Ger 3, 4. Additional lower-division courses to be taken at CSUN.
University of California, Davis: Ger 1, 2, 3, 4.

**History**
Major requirements for upper-division standing at:
California State University, Northridge: Hist 1A or 1B; 7A or 7B; 10 or 15 or 16.
University of California, Riverside: Three courses from: Hist 1A, 1B, 7A, 9, 15.

**Humanities**
Major requirements for upper-division standing at:
California State University, Northridge: Art 1A or 1B or 2; Hum 10A, 10B; Mus 8. Majors are required to demonstrate foreign language proficiency exam at the 1-2 level.
University of California, Chico: Hum 2; additional courses after transfer.
Interior Design
Major requirements for upper-division standing at:
California State University, Fresno: Art 1B, 4A, 12A; DT 2; Engl 1A; Hist 7A or 7B; ID 5; Math 15; Phil 5 or 7; Photo 1A; Pol Sc 3; Psych 1A; Spch 1.
San Jose State University: Art 1A, 1B, 4A or 4B, 12A; additional requirements after transfer.

Journalism
Major requirements for upper-division standing at:
California State University, Fresno: Journ 1, 2, 8.
California State University, Northridge: Journ 2. (No more than 12 units in Journalism may be transferred from Moorpark.)

Mathematics
Major requirements for upper-division standing at:
California State University, Northridge: CS 10/10L; Math 25A, 25B, 25C, 31; Phil 9; Ph 20A/20AL, 20B/20BL.
University of California, Davis: (B.A.) CS 10/10L or 18/18L; Math 25A, 25B, 25C, 31, 35; Ph 20A/20AL. (B.S.) add: Math 15; Ph 20BC with Labs.

Nutritional Science
Major requirements for upper-division standing at:
California State University, Northridge: Dietetics: Biol 2A; Chem 8, 8L, 12, 13; Engl 1A; Math 3 (for ADA requirement); Micro 1; Phys 1; Psych 1A; Soc 1; Spch 1.
University of California, Davis: Biol 2A; Bot 1; Chem 1A, 1B, 8, 8L; CS 1/1L; Math 15, 25A; 25B; Zoo 1.

Philosophy
Major requirements for upper-division standing at:
California State University, Fresno: Phil 5 or 7 or 9. See counselor for courses for options.
California State University, Northridge: Phil 9; additional lower-division courses to be taken after transfer.
University of California, Riverside: Phil 5 or 7, 9.

Physical Education
Major requirements for upper-division standing at:
California State University, Northridge: Core courses: An 1; Biol 1 or 2A; Phys 1; five units of professional activities.
Selected activities courses may substitute for these courses.
Contact CSUN Physical Education Department for details.

Physics
Major requirements for upper-division standing at:
California State University, Northridge: Core courses: Chem 1A;
Physics option: Engr 20/20L.
University of California, Davis: Chem 1A, 1B; CS 18/18L; Math 25A, 25B, 25C, 31, 35; Ph 20A/20AL, 20B/20BL, 20C/20CL.

Political Science
Major requirements for upper-division standing at:
California State University, Northridge: Pol Sc 2, 3, 4.
University of California, Davis: Hist 1A, 1B; Pol Sc 2, 3, 4.
University of California, Santa Barbara: Econ 1, 2; Hist 1A, 1B (or 7A, 7B for Public Service emphasis only); Pol Sc 2 or 4, and Pol Sc 3, 10. International Relations must add Foreign Language 1, 2, 3, 4; Geog 4; Psych 5/Soc 5. Public Service must add Bus 2ABC; one course from CIS 4A or 4B or CS 10 or 18.

Psychology
Major requirements for upper-division standing at:
University of California, Davis: Biol 2A or Biol 1 and Anth 1; Math 15; Psych 1A.

Radio—Television—Film
Major requirements for upper-division standing at:
California State University, Northridge: Hum 3 or 4; RT 1, 3A or 7A.
San Diego State University: RT 1, 3A, 5, 7A; Hum 3

Religious Studies
Major requirements for upper-division standing at:
California State University, Northridge: Phil 11; other lower-division courses to be taken after transfer.

Sociology
Major requirements for upper-division standing at:
California State University, Northridge: Math 15; Soc 1, 3.
University of California, Davis: Anth 2; Phil 1 or 2; Soc 1 or 2, 5; one course from: Hist 1B, 7A, 7B, 10, 15, 16.

Spanish
Major requirements for upper-division standing at:
California State University, Northridge: SPANISH: Engl 30 and 31; Spn 3, 4. Additional lower-division courses to be taken at CSUN.
University of California, Davis: Spn 1, 2, 3, 4.

Speech
Major requirements for upper-division standing at:
California State University, Northridge: Communication Studies option: Hum 3 or 4. General Major option: Spch 5; additional lower-division courses to be taken after transfer.

Theatre Arts
Major requirements for upper-division standing at:
California State University, Northridge: ThA 1, 2A, 2B, 2C, 20, 23, 24. Th 300 to be taken after transfer.

Urban Studies
Major requirements for upper-division standing at:
California State University, Northridge: Econ 1, 2; Urban 1A.
Techniques Option: CS 10A/10AL and CIS 4A or 3A.
Political-Humanistics Option: Hist 3
Announcement of Courses

In the section that follows there appears a brief description of every course in the Moorpark College curriculum. Included with each description is information regarding the unit value of the course, the weekly hours or total hours of the course meetings, and the transfer status of the course. In the case of those courses for which there are prerequisites (i.e., previous preparation of some nature is required), such prerequisites are stated before the course description is given.

The transfer status of the course with regard to the California State University and College system (CSU) and the University of California system (UC) is indicated following the course description. The course may be accepted for credit by the CSU system only, by both the CSU and UC systems, or by neither system. For some courses there are limitations to the credit granted in the UC system. It is emphasized that the limitations apply to the UC system only; each credit limitation is explained. In those instances where UC transfer credit is shown as pending, a counselor should be consulted. Should no transfer credit statement appear following a course description, that course is not acceptable for credit at any of the California public four-year institutions and, normally, not acceptable at private or out-of-state institutions as well.

Special Note:

1) The designations (F) indicates that the class is offered in the Fall only; the designations (S) indicates that the class is offered in the Spring only.
2) *Denotes course must be taken for Credit/No Credit.
3) The University of California system will accept a total of 6 units in any and all transferable courses numbered 22 or 60.

Adapted Computer Technology

All Adapted Computer Technology courses are listed with the Special Education courses. Refer to that section alphabetically for full course information.

Anatomy
Anatomy/Physiology

All Anatomy and Anatomy/Physiology courses are listed with the Biology courses. Refer to that section alphabetically for full course information.
Anthropology

Training in anthropology will prepare one for any career that involves working on the interface between two cultures. Specialized preparation in this subject can lead to some of the world’s most interesting work—the study of existing life-ways, archaeological excavation and interpretation, primate behavior, and social research into economics, politics, law, religion, art, and music.

Career Opportunities

Careers in anthropology are diverse, specialized, and related to the various areas of concentration which are offered at four-year colleges and universities:

- Archaeologist-Federal/State/Private
- Environmental Impact Analyst
- Health Researcher
- Urban Planner Assistant
- Exhibit Designer
- Cultural Resource Management

Expedition Guide
Population Analyst
Recreation Specialist
Travel Consultant
Tour Guide
Museum Curator

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselor</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Baker</td>
<td>Diane Brabant</td>
<td>Mike Johnson</td>
</tr>
<tr>
<td>Robert Lopez</td>
<td>Charles Eastman</td>
<td>Ofelia Romero-</td>
</tr>
<tr>
<td>Thomas McAdam</td>
<td>Nadine Mandel-Toren</td>
<td>Mutlaugh</td>
</tr>
<tr>
<td>Jack Reynolds</td>
<td>Michele Titus</td>
<td></td>
</tr>
</tbody>
</table>

■ Archaeology

Associate in Arts Degree

This is a specialized program designed to award a designated associate degree to those students who have completed a course of specialization in Archaeology. At no time is this program intended to be used as a license for independent unsupervised archaeological research. Rather it is a program designed to introduce the student to archaeological research and to give them the opportunity to actively participate in supervised archaeological research. These requirements were also chosen to optimize students' preparation for upper-division course work in Anthropology/Archaeology offered by four-year institutions. Since course work in Anthropology/Archaeology is somewhat sequential at most four-year institutions, students may spend less time earning an Associate in Arts Degree and/or Bachelor of Arts Degree by deferring some of the university general education requirements until their Junior and Senior years and giving priority to the requirements for a major in Archaeology. In addition, the earning of this degree will be evidence of achievement of technical skills which may be helpful towards active participation in archaeological research projects.

Required Courses:

<table>
<thead>
<tr>
<th>Units</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA A: Core courses in Anthropology, in the order recommended, for a total of 9 units.</td>
<td></td>
</tr>
<tr>
<td>Anth 3 Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>Anth 2 Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Anth 1 Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AREA B: Practical courses in archaeological methodology for a total of 18 units. Courses in this area may be repeated two times.</td>
<td></td>
</tr>
<tr>
<td>Anth 5 Archaeological Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>Anth 10 Archaeological Reconnaissance</td>
<td>3</td>
</tr>
<tr>
<td>Anth 12 Archaeological Laboratory Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AREA C: Electives for a total of 18 units selected from the following courses. Those courses indicated by (2X) may be repeated two times in this area.</td>
<td></td>
</tr>
<tr>
<td>Anth 5 Archaeological Field Methods (2X)</td>
<td>3</td>
</tr>
<tr>
<td>Anth 10 Archaeological Reconnaissance (2X)</td>
<td>3</td>
</tr>
<tr>
<td>Anth 12 Archaeological Laboratory Procedures (2X)</td>
<td>3</td>
</tr>
<tr>
<td>Anth 60C Indians of California</td>
<td>3</td>
</tr>
</tbody>
</table>

ANTH 60 The Chumash and Their Neighbors 3
ANTH 60R Archaeological Research Methods (2X) 3
ANTH 60S Introductory Field Methods Supervision (2X) 3
Biol 5 Field Biology 3
Geog 6 Map Use and Interpretation 2
Geol 4 Mineralogy 4
Geol 21 Geology of California 3
Photo 1A Beginning Photography 3

Total minimum units required in major area 45

See Degree Requirements and Transfer Information section for General Education requirements.

Anthropology Courses

ANTH 1 3 Units
Physical Anthropology
Class Hours: 3 lecture
This course on human evolution and diversity includes such areas as genetics, evolution, primatology, paleontology, human variation and bicultural adaptation. Transfer credit: CSU; UC; CAN: ANTH 2

ANTH 2 3 Units
Cultural Anthropology
Class Hours: 3 lecture
This course focuses upon the basic concepts and methods for analyzing cultural systems, illustrated with examples drawn largely from non-Western societies. Emphasis will be on the structure and evolution of human behavior in all major aspects of cultures. Transfer credit: CSU; UC; CAN: ANTH 4

ANTH 3 3 Units
Archaeology
Class Hours: 3 lecture
This course is an introduction to the history, goals, and methods of Archaeology. Emphasis will be on methods of interpreting and dating the prehistoric past through the rise of complex societies. Special emphasis will be placed on the archaeology of the New World and Ventura County in particular. Transfer credit: CSU; UC

ANTH 4 3 Units
Chicano Culture*
Class Hours: 3 lecture
This study of the social and cultural heritage of the Chicano emphasizes middle American civilizations, and includes the cultural evolution of the Chicano, from the Spanish conquest to present-day America. The course is concerned with the contributions made by the Chicano to the United States culture, especially in the fine arts, literature, and orally transmitted heritage. (co-numbered Ch St 2) Transfer credit: CSU; UC

ANTH 5 3 Units
Archaeological Field Methods
Prerequisite: Anth 3 or concurrent enrollment in Anth 3 or equivalent
Class Hours: 1 lecture, 6 laboratory
This is a course in practical archaeology that is intended for students who desire to expand their existing knowledge of archaeological inquiry. The emphasis of this course will be on actual site excavation and primary sorting of artifactual materials. May be taken four (4) times for credit. Transfer credit: CSU

ANTH 6 3 Units
Introduction to Native American Studies*
Class Hours: 3 lecture
This course will be a broad survey of the origins, development, and attainments of Native Americans within the United States. Transfer credit: CSU; UC

ANTH 7 3 Units
Peoples and Cultures of the World
Class Hours: 3 lecture
This class surveys various peoples and cultures around the world. Emphasis is on the different subsistence strategies which these groups employ to ensure their survival and on the effects these strategies have upon such factors as their social structure, belief system, and economic organization. **Transfer credit:** CSU; UC

**ANTH 9 -- 3 Units**

**Anthropology of Women**

Class Hours: 3 lecture

This course is an exploration of women's roles, stereotypes, and contributions, past and present. Drawing upon case studies from both traditional and contemporary world cultures, the course examines relationships among gender, kinship, economics, politics, myth and ideology. **Transfer credit:** CSU; UC

**ANTH 10 -- 3 Units**

**Archaeological Reconnaissance**

Prerequisite: Anth 3 or concurrent enrollment in Anth 3 or its equivalent

Class Hours: 1 lecture, 6 laboratory

This is a course in the practical application of a specific aspect of archaeological field research -- the discovery, evaluation, and recording of cultural resources. Students will be exposed to the use of a compass, evaluation of soil and terrain formations, plant resources, urban disturbance, and various data reporting techniques. May be taken four (4) times for credit. **Transfer credit:** CSU

**ANTH 11 -- 3 Units**

**The Anthropology of Magic, Witchcraft and Religion**

Class Hours: 3 lecture

This course will survey the various ways in which societies attempt to deal with the supernatural. Specifically, the course will focus on such topics as religion as a fact in nature, the shaman as a religious specialist, classification of religions across cultures, ethnomedicine, and the relationship between science and religion. **Transfer credit:** CSU; UC

**ANTH 12 -- 3 Units**

**Archaeological Laboratory Procedures**

Prerequisite: Anth 3 or equivalent

Class Hours: 3 lecture

This course is an actual hands-on experience working with archaeological collections. Students will be taken through initial processing, sorting, washing, stabilizing and, finally, cataloging. May be taken four (4) times for credit. **Transfer credit:** CSU; UC

**ANTH 22A/B -- 5-3/5-3 Units**

**Independent Studies in Anthropology**

Prerequisite: A previous course in Anthropology

Class Hours: 5-3 tutorial

This course is for students who are interested in furthering their knowledge of anthropology on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 5 units. **Transfer credit:** CSU; UC credit limitations.

**ANTH 60A-Z -- 1-3 Units**

**Topics in Anthropology**

Prerequisites: To be determined with each Topic

Class Hours: To be determined with each Topic

This is a special series of courses each of which deals with a specific topic in Anthropology not covered in detail in the general Anthropology course offerings. Topic courses are announced on a semester basis in the schedule of classes. **Transfer credit:** CSU; UC credit limitations.

Topics which have been developed include:

**60C -- 3 Units**

**Indians of California**

Class Hours: 3 lecture

This course offers students a multidimensional look at the aboriginal inhabitants of California before and since European contact.

**60L -- 3 Units**

**The Chumash and Their Neighbors**

Class Hours: 3 lecture

This will be an in-depth look at the Chumash, the major aboriginal population to occupy Ventura County in pre-contact times. Major consideration will be given to their social, political, and economic structure and to their relations with their aboriginal neighbors and the later Spanish Colonial establishment.

**60J -- 3 Units**

**Egyptology: Archaeology of the Land of the Pharaohs**

Class Hours: 3 lecture

This course will emphasize the archaeological contributions to a better understanding of the historical and cultural development of ancient Egypt.

**60R -- 3 Units**

**Anthropological Research Methods**

Prerequisite: A previous course in Anthropology

Class Hours: 2 lecture, 3 laboratory

This is a course in the method and madness of undertaking various selected aspects of anthropological research. Students will be taught to use the tools of research through their explanation and application on actual research projects. May be taken four (4) times for credit.

**6CS -- 3 Units**

**Introductory Archaeological Field Methods**

**Supervision**

Prerequisite: 12 units of Anth 6

Class Hours: 1 lecture, 6 laboratory

This course is designed to introduce an advanced student of Archaeology Field Methods to the training and management of an inexperienced "pit crew." May be taken four (4) times for credit.

*These courses are offered periodically.*
The students who elect to major in the field of art have a variety of opportunities open to them. Choices include careers in teaching, art criticism, journalism, historic preservation, or work as practicing artists in ceramics, painting, sculpture, drawing, commercial art, and photography.

### Career Opportunities

<table>
<thead>
<tr>
<th>Career</th>
<th>Opportunity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Painter</td>
<td>Gallery Owner</td>
</tr>
<tr>
<td>Sculptor</td>
<td>Artist's Agent</td>
</tr>
<tr>
<td>Papermaker</td>
<td>Museum Worker</td>
</tr>
<tr>
<td>Printmaker</td>
<td>Art Researcher</td>
</tr>
<tr>
<td>Ceramicist</td>
<td>Fashion Designer</td>
</tr>
<tr>
<td>Jeweler</td>
<td>Cartoonist</td>
</tr>
<tr>
<td>Water Color Artist</td>
<td>Art Restorer</td>
</tr>
<tr>
<td>Mold Maker</td>
<td>Illustrator</td>
</tr>
<tr>
<td>Art Dealer</td>
<td>Advertising Assistant</td>
</tr>
</tbody>
</table>

### Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kirk Aiken</td>
<td>Lynn Creighton</td>
<td>José de la Peña</td>
</tr>
<tr>
<td>Christine Marx</td>
<td>William Dodgen</td>
<td>Don Henderson</td>
</tr>
<tr>
<td>Jack Noyes</td>
<td>Suzanne Duca</td>
<td></td>
</tr>
<tr>
<td>Frank Sardisco</td>
<td>Richard Flores</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gaye Lagoire</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gulhis Monezis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Margaret Phelps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gerald Swiggar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bonese Turner</td>
<td></td>
</tr>
</tbody>
</table>

### Art

#### Associate in Arts Degree

This program provides students with a curriculum design that is preparatory for transfer to most universities and professional schools of art.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 1A</td>
<td>3</td>
</tr>
<tr>
<td>Art 1B</td>
<td>3</td>
</tr>
<tr>
<td>Art 4A</td>
<td>3</td>
</tr>
<tr>
<td>Art 4B</td>
<td>3</td>
</tr>
<tr>
<td>Art 12A</td>
<td>3</td>
</tr>
<tr>
<td>Art 12B</td>
<td>3</td>
</tr>
<tr>
<td>Art 13A</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Additional Courses:**

Select six (6) additional units of any other art or graphic communication/design courses.

**Total minimum units required in major area — 27**

**Recommended Courses:**
- Art 2, 8A, 15A, 16A; GC 20; GRD 30; Photo 1A
- See Degree Requirements and Transfer Information section for General Education requirements.

### Art Courses

Students planning to take more than 16 units of Art courses marked with * and/or more than 12 units of those marked with † (and Photography courses marked with *) should consult a counselor. The UC system accepts only that limited number of units in the respective cases.

**ART 1A — 3 Units**

**Art History (F)**

- Class Hours: 3 lecture
- This survey of the history of art of the western world, from prehistoric times to the middle ages, includes ancient, medieval, classic, early Christian and Byzantine art. Emphasis is placed on techniques in architecture, painting and sculpture as well as an examination of the key figures in art history. This course is required for art majors. **Transfer credit: CSU; UC; CAN: ART 2**

**ART 1B — 3 Units**

**Art History (S)**

- Class Hours: 3 lecture
- The history of art of the western world from the middle ages to modern times continues an emphasis on the techniques of producing art as well as examination of the key figures in art history. This course is required for art majors. **Transfer credit: CSU; UC; CAN: ART 4**

**ART 1C — 3 Units**

**Art History**

- Class Hours: 3 lecture
- This course investigates the theory and practice of the visual arts from about 1850 to the present by examining the various movements and how they reflect social and technological changes in the modern era. **Transfer credit: CSU; UC**

**ART 2 — 3 Units**

**Art Appreciation**

- Class Hours: 3 lecture
- Through a study of the major techniques used by artists working in diverse media, this course helps students to develop informed perceptions and evaluations of works of art and to understand them in their historical and cultural contexts. **Transfer credit: CSU; UC (not recommended for Art majors)**

**ART 4A — 3 Units**

**Color and Design**

- Class Hours: 2 lecture, 3 laboratory
- This basic course provides background in the use of design principles. Students are given specific problems in line, shape, texture, form, and the principles of abstraction. Emphasis is placed on color theory and its practical applications. Weekly projects will be introduced by one hour of lecture and the results will be evaluated by a one-two hour critique. **Transfer credit: CSU; UC; CAN: ART 14**

**ART 4B — 3 Units**

**Three-Dimensional Design**

**Prerequisite: Art 4A**

- Class Hours: 2 lecture, 3 laboratory
- Aspects of 3D design will be studied including the application of 2D design principles to the third dimension. Students will create form through interaction with various materials including clay, plaster, wire, found objects, papier-mache, and cardboard employing additive and subtractive techniques and various construction methods. **Transfer credit: CSU; UC; CAN: ART 16**

**ART 4C — 3 Units**

**Advanced Problems in Color and Design**

**Prerequisite: Art 4A**

- Class Hours: 2 lecture, 3 laboratory
- This class is a further exploration of the two-dimensional design concepts mastered in Art 4A. Students are given advanced problems in line, shape, texture, form and specific subject matter as design motif. Emphasis is placed on both personal creativity expressed through standards of established criteria of excellence and a deeper study of principles as they apply to industry and commercial design. May be taken two (2) times for credit. **Transfer credit: CSU; UC**

**ART 8A — 3 Units**

**Beginning Ceramics**

- Class Hours: 1 lecture, 6 laboratory
- Students receive practice in the techniques of elementary clay construction, including pinch, coil and slab methods, as well as an introduction to the potter's wheel, glazing and firing techniques. **Transfer credit: CSU; UC; CAN: ART 6**

**ART 8B — 3 Units**

**Beginning Ceramics**

**Prerequisite: Art 8A**

- Class Hours: 1 lecture, 6 laboratory
In addition to practicing the techniques of elementary clay construction, including pinch, coil and slab methods, students experiment in sculptural forms and in the development of glazes, decoration and firing methods. *Transfer credit: CSU; UC†*

**ART 9A -- 3 Units**  
**Ceramic Design**  
Prerequisite: Art 8B and Art 4A  
Class Hours: 1 lecture, 8 laboratory  
This is an advanced study in ceramics, with emphasis on exploration of clay bodies, glaze materials, glaze calculations, firing, and independent projects. The course is designed to develop growth and individual creative expression. *Transfer credit: CSU; UC†*

**ART 9B -- 3 Units**  
**Ceramic Design**  
Prerequisite: Art 9A  
Class Hours: 1 lecture, 6 laboratory  
Students make a more in-depth study of ceramics, with emphasis on clay bodies, glaze materials, glaze calculations, firing, and independent projects. *Transfer credit: CSU; UC†*

**ART 12A -- 3 Units**  
**Drawing and Composition**  
Class Hours: 1 lecture, 6 laboratory  
Basic drawing experience stresses graphic representation of objects through a variety of media and techniques. Particular emphasis is placed on the development of pictorial composition, depth perception, perspective and rendering. *Transfer credit: CSU; UC; CAM ART 8*

**ART 12B -- 3 Units**  
**Drawing and Composition**  
Prerequisite: Art 12A  
Class Hours: 1 lecture, 6 laboratory  
The drawing media of pen and ink and watercolor washes are further explored. Advanced problems in rendering, concepts of illustration and drawing concepts of analytic abstraction will also be dealt with. *Transfer credit: CSU; UC†*

**ART 13A -- 3 Units**  
**Life Drawing**  
Prerequisite: Art 12A or equivalent  
Class Hours: 1 lecture, 6 laboratory  
Students will learn to draw the human figure from the live model. Emphasis is placed on structure, proportion, form and composition, as well as on practice in the use of linear and tonal concepts. Many different media will be explored, including charcoal, conte crayon, pencil, pen and ink. *Transfer credit: CSU; UC†*

**ART 13B -- 3 Units**  
**Life Drawing**  
Prerequisite: Art 13A  
Class Hours: 1 lecture, 6 laboratory  
Exercising freedom of expression, students learn how to draw the human figure from the live model. Emphasis is placed upon structure, proportion form and composition. The student will be expected to have mastered the elements of Art 13A. *Transfer credit: CSU; UC†*

**ART 13C/D -- 3 Units**  
**Life Drawing**  
Prerequisites: Art 13B for 13C; Art 13C for 13D  
Class Hours: 1 lecture, 6 laboratory  
Students will draw the human figure, beginning with a skeletal structure, using many media, including charcoal, pencil, pen and ink, conte crayon and pastels. Emphasis is placed on structure, proportion, form and composition, as well as on practice in the use of linear and tonal concepts. *Transfer credit: CSU; UC†*

**ART 14A -- 2 Units**  
**Silk Screen-Serigraph Printmaking**  
Prerequisite: Art 4A  
Class Hours: 6 laboratory  
In this introduction to and study of silk screen as an artist's tool in printmaking, students will construct a silk screen and learn basic techniques. Particular emphasis is given to various inks, stencils and their solvents. Group and individual critiques are made. *Transfer credit: CSU; UC†*

**ART 14B -- 2 Units**  
**Advanced Silk Screen-Serigraph Printmaking**  
Prerequisite: Art 14A  
Class Hours: 6 laboratory  
Emphasis is on individual development of expression in printmaking. The student should expect to produce multicolor runs and is encouraged to develop a personal approach to silk screen. May be taken two (2) times for credit. *Transfer credit: CSU; UC†*

**ART 15A -- 3 Units**  
**Beginning Printmaking**  
Prerequisite: Art 4A  
Class Hours: 1 lecture, 6 laboratory  
This introduction to and exploration of the printmaking media available to the artist includes work in relief (wood block and linocut), as well as intaglio (etching, engraving, etc.), with emphasis on relief, collograph and embossed print. *Transfer credit: CSU; UC†; CAN ART 20*

**ART 15B -- 3 Units**  
**Beginning Printmaking**  
Prerequisite: Art 15A  
Class Hours: 1 lecture, 6 laboratory  
An in-depth exploration of the intaglio techniques includes line etching, aquatint, sugar lift, experimental techniques. *Transfer credit: CSU; UC†*

**ART 15C -- 3 Units**  
**Advanced Printmaking**  
Prerequisite: Art 15B  
Class Hours: 1 lecture, 6 laboratory  
Advanced work in intaglio and relief print instruction places particular emphasis on individual solutions and in-depth exploration of experimental techniques. *Transfer credit: CSU; UC†*

**ART 15D -- 3 Units**  
**Advanced Printmaking**  
Prerequisite: Art 15C  
Class Hours: 1 lecture, 6 laboratory  
Advanced work in intaglio or relief printmaking places particular emphasis on individual solutions and in-depth exploration of experimental techniques. *Transfer credit: CSU; UC†*

**ART 16A -- 3 Units**  
**Painting**  
Prerequisite: Art 12A or Art 4A or equivalent  
Class Hours: 1 lecture, 6 laboratory  
Beginning course deals with the nature of structural and expressive values in contemporary painting. Students receive practice in the building of form, control of pictorial order, and the uses of color and light. It is designed to give beginning students a thorough background in the fundamental skills necessary to mastery of the basic techniques of painting. *Transfer credit: CSU; UC†; CAN ART 10*

**ART 16B -- 3 Units**  
**Painting**  
Prerequisite: Art 16A  
Class Hours: 1 lecture, 6 laboratory  
The course continues to develop the skills and concepts necessary for a solid foundation in painting. Emphasis is placed on technical competence and individual concepts. Students experiment with both traditional and newer painting materials. *Transfer credit: CSU; UC†*

**ART 16C -- 3 Units**  
**Advanced Painting**  
Prerequisite: Art 16B  
Class Hours: 1 lecture, 6 laboratory  
The course deals with advanced painting concepts and techniques. The student will now attempt to build on the foundation laid in the first two semesters. The search will now be aimed at a more personal and unique form of self-expression in painting. The student will be encouraged to experiment more with subject matter that lends itself to more personal interpretations. The student teacher relationship will be on a one-to-one basis. *Transfer credit: CSU; UC†*
The class deals with advanced painting concepts and techniques. The search will now be aimed at a more personal and unique form of self-expression in painting. Transfer credit: CSU; UC*

**ART 17A -- 3 Units**
**Landscape Painting**
Prerequisite: Art 4A or Art 12A or equivalent
Class Hours: 1 lecture, 6 laboratory
Painting from nature out of doors in various media, such as acrylics, oils, watercolor, and pastels. The course is designed to acquaint the student with painting skills and concepts as they apply to landscape. NOT ALL OUTDOORS. Transfer credit: CSU; UC*

**ART 17B -- 3 Units**
**Landscape Painting**
Prerequisite: Art 17A
Class Hours: 1 lecture, 6 laboratory
The course is designed to further expand the skills and concepts of painting as they apply to landscape. More emphasis will be placed on a more personal and creative approach to landscape painting. Transfer credit: CSU; UC*

**ART 18A -- 3 Units**
**Water Color**
Prerequisites: Art 4A, Art 12A or equivalent
Class Hours: 1 lecture, 6 laboratory
The course deals with a thorough understanding of the water color media. The class begins with simple water color exercises leading to more complex problems to be solved in a personal and creative way. Transfer credit: CSU; UC*

**ART 18B -- 3 Units**
**Water Color**
Prerequisite: Art 18A or equivalent
Class Hours: 1 lecture, 6 laboratory
The course deals with more advanced water color techniques. The student will experiment with the use of the multiple image in subject matter. Both landscape and still life subjects will be explored. Transfer credit: CSU; UC*

**ART 18C -- 3 Units**
**Water Color**
Prerequisite: Art 18B
Class Hours: 1 lecture, 6 laboratory
The course deals with more advanced water color techniques. The student will continue to experiment with the use of the multiple image in subject matter. Both landscape and still subjects will be explored as well as more advanced and personal areas of investigation that the student will bring to the course. Transfer credit: CSU; UC*

**ART 18D -- 3 Units**
**Water Color**
Prerequisite: Art 18C
Class Hours: 1 lecture, 6 laboratory
The course deals with more advanced water color techniques. The student will continue to experiment but will be expected to bring something new, personal, and unique to the class. The emphasis will be on the personal growth and development of the individual. Transfer credit: CSU; UC*

**ART 19A -- 3 Units**
**Beginning Sculpture**
Class Hours: 1 lecture/6 lab
This beginning course in sculpture is a class designed to develop an awareness for historical and contemporary concerns with regard to three-dimensional design concepts. Attention is given to personal expression through materials such as paper, cardboard, plaster, wood, wire, and clay. Transfer credit: CSU; UC pending.

**ART 22A/B -- 1-3/1-3 Units**
**Independent Studies in Art**
Prerequisite: A previous course in Art
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of art on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.
Astronomy

Astronomers use the principles of physics and mathematics to answer questions about the fundamental nature of the universe, and about celestial bodies such as the sun, moon, planets, and stars. They may apply their knowledge to problems in navigation and space flight.

Career Opportunities
(Post bachelors degree necessary)
Astronomer
Astrophysicist

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balazs Becht</td>
<td>Hal Jancor</td>
<td>José de la Peña</td>
</tr>
<tr>
<td>Phillip Klutch</td>
<td>Dennis Leartart</td>
<td></td>
</tr>
<tr>
<td>Carolyn Mallory</td>
<td>Ronald Wallingford</td>
<td></td>
</tr>
</tbody>
</table>

Astrophysics

Associate in Science Degree

This program is designed to award a designated associate degree to those students who have completed a course of specialization in Astrophysics. These requirements were chosen by faculty to optimize students' preparation for upper-division course work for Bachelor of Science degrees in Astrophysics offered by four-year institutions. Since the course work in astrophysics is sequential, students may spend less time earning an Associate of Science Degree and/or Bachelor of Science Degree by deferring some of the university general education requirements until their Junior and Senior years and giving priority to the requirements for a major in astrophysics. In addition, the earning of this degree will be evidence of achievement of technical skills which may be helpful towards the seeking of immediate employment.

Preparation for the Major:

Mathematics -- two years high school algebra plus trigonometry or Math 3 and 7 or equivalent.
Chemistry -- one year high school chemistry or Chem 12 or equivalent.
Physics -- one year high school physics or Ph 10A or equivalent.

Astrophysics students are strongly encouraged to take advantage of summer school class offerings.

Required Courses:

<table>
<thead>
<tr>
<th>Units</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Astron 1 -- An Introduction to Astronomy</td>
</tr>
<tr>
<td>2</td>
<td>Astron 10 -- Observational Astronomy</td>
</tr>
<tr>
<td>6</td>
<td>Chem 1A -- General Chemistry I</td>
</tr>
<tr>
<td>6</td>
<td>Chem 1B -- General Chemistry II</td>
</tr>
<tr>
<td>5</td>
<td>Math 25A -- Calculus with Analytic Geometry I</td>
</tr>
<tr>
<td>5</td>
<td>Math 25B -- Calculus with Analytic Geometry II</td>
</tr>
<tr>
<td>5</td>
<td>Math 25C -- Calculus with Analytic Geometry III</td>
</tr>
<tr>
<td>3</td>
<td>Math 35 -- Applied Differential Equations</td>
</tr>
<tr>
<td>5</td>
<td>Ph 20A/20AL -- Mechanics of Solids and Fluids/Lab</td>
</tr>
<tr>
<td>5</td>
<td>Ph 20B/20BL -- Electricity and Magnetism/Lab</td>
</tr>
<tr>
<td>5</td>
<td>Ph 20C/20CL -- Wave Motion, Heat, Optics &amp; Modern Physics/Lab</td>
</tr>
</tbody>
</table>

Total minimum units required in major area -- 50

*Denotes a course required for the A.S. degree but not typically required for a B.S. degree in astrophysics.

Suggested Course Sequence:

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 1A ........  6</td>
<td>Astron 1 ........  3</td>
<td>Astron 10 ........  2</td>
</tr>
<tr>
<td>Math 25A ........  5</td>
<td>Math 25 ........  5</td>
<td>Math 35 ........  3</td>
</tr>
<tr>
<td>..................  11</td>
<td>Ph 20B/20BL ........  5</td>
<td>Ph 20C/20CL ........  5</td>
</tr>
</tbody>
</table>

See Degree Requirements and Transfer Information section for General Education requirements.

Astronomy Courses

ASTRON 1 -- 3 Units
An Introduction to Astronomy
Class Hours: 3 lecture

This course is a survey of modern astronomy. The fundamental principles are presented in a nonmathematical, descriptive way. Topics include: our solar system, stars, galaxies, and the origin and evolution of the universe. Transfer credit: CSU; UC

ASTRON 1L -- 1 Unit
An Introduction to Astronomy Laboratory
Prerequisite: Astron 1 or Astron 2, may be taken concurrently
Class Hours: 3 laboratory

This laboratory course reinforces some of the principles and techniques studied in Astron 1 or Astron 2. The student will obtain hands-on experience with telescopes, star charts, and other devices commonly used in astronomy. Observation and measurements are made of the moon, the planets, and the stars. Transfer credit: CSU; UC

ASTRON 2 -- 3 Units
Our Solar System: The Next Frontier
Class Hours: 3 lecture

This course includes a brief introduction to observational astronomy, followed by a review of the history of astronomy. The planets, satellites, asteroids, comets, and the sun are studied in detail. The laws of motion and the law of gravitation are discussed in connection with space travel. Space missions of the past, present and the future are reviewed and the question of colonization of other planets is explored. Transfer credit: CSU; UC

ASTRON 10 -- 2 Units
Observational Astronomy
Prerequisites: Astron 1/1L or Astron 2 and Math 6 or Math 7, or equivalent college course, or equivalent skills which may be measured by the college assessment process
Class Hours: 1.5 lecture, 1.5 laboratory

This course is an introduction to tools, techniques, and practices of observational astronomy through lectures, laboratory exercises and observing sessions. Topics covered include: data acquisition and reduction, motions, positions and brightness of celestial objects, and use of data banks via computer access. Transfer credit: CSU; UC

ASTRON 22A/B -- .5-3/.5-3 Units
Independent Studies in Astronomy
Prerequisite: A previous course in Astronomy
Class Hours: 5-3 tutorial

This course is for students who are interested in furthering their knowledge of astronomy on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

Astronomy Hotline

For current information on astronomy news, call the 24-hour hotline (starline) (805) 529-7813 operated by the Ventura County Astronomical Society.
Faculty
Counselors
Frank Bianchino
Lisa Raufman

Behavioral Science
Associate in Arts Degree
Areas of Emphasis:
Anthropology, Psychology, Sociology

This program is recommended not only for students wishing an
A.A. degree, but also for those who intend to transfer to a four-year
institution or university with a major in Behavioral Science empha-
sizing Anthropology, Psychology or Sociology. Transfer students
should consult the transfer requirements section as additional
courses are required by transfer institutions.

AREA A: Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth 2</td>
<td>3</td>
</tr>
<tr>
<td>Psych 1A</td>
<td>3</td>
</tr>
<tr>
<td>Soc 1</td>
<td>3</td>
</tr>
</tbody>
</table>

AREA B: Required Courses for Emphasis:

Anthropology Emphasis:
Any other two (2) Anthropology courses except Anth 1, 22 or 60
series courses.

Psychology Emphasis:
Any other two (2) Psychology courses except the 22 or 60 series
courses.

Sociology Emphasis:
Any other two (2) Sociology courses except the 22 or 60 series
courses.

AREA C: One additional required three-unit course outside the
student's area of emphasis from the following courses:
Anthropology: any course other than Anth 1, 22 or 60 series
courses.
Psychology: any course other than the 22 or 60 series courses.
Sociology: any course other than the 22 or 60 series courses.

Chicano Studies: 1, 2, 4.
History: 3, 4, 6, 8, 12.
Humanities: 16, 19.

Total minimum units required in major area — 18

See Degree Requirements and Transfer Information section for General Educa-
tion requirements.

NOTE: Refer to individual course listings by discipline appearing in
alphabetical order: Anthropology, Psychology, Sociology.
Biological Sciences

Study in biology leads to a wide range of careers upon the attainment of the baccalaureate degree. Many students prepare for entry into graduate or professional schools upon graduation; programs in dentistry, medicine, nursing, pharmacy, and similar professions depend upon emphasis in biological sciences. Careers are found in teaching, research, government service.

Career Opportunities

(Most careers require a bachelor and advanced degree)
Biological Technician
Public Health Biologist
Cytologist
Clinical Lab Technologist
Museum Curator
Health Technician
Science Librarian
Ecologist
Athletic Trainer

Food and Drug Agency Trainee
Genetic Engineering Technician
Waste Management Technician
Laboratory Technician
Research Assistant
Plant Ecologist
Physical Therapist
Food Processing Technician

Faculty

Full-Time
David Bishop
Maureen Harrigan
Thomas McAdam
Larry Miller
Gary Ogden
Jack Reynolds
Eric Shargo

Part-Time
Michael Cornish
Harold Deisie
Gerald Lassik
Douglas Markell
Alen Schaub
Brad Seibel
Cynthia Vodraska

Counselors
Edna Ingram
Leticia Mai
Danita Redd Terry

■ Biology

Associate in Arts Degree

This program is designed to award a designated associate degree to those students who have completed a course of specialization in Biology. These requirements were chosen by faculty to optimize students' preparation for upper-division course work for Bachelor of Arts degrees in Biology offered by four-year institutions. Since the course work in biology is sequential, students may spend less time earning an Associate in Arts Degree and/or Bachelor of Arts Degree by deferring some of the university general education requirements until their Junior and Senior years and giving priority to the requirements for a major in biology. In addition, the earning of this degree will be evidence of achievement of technical skills which may be helpful towards the seeking of immediate employment.

Preparation for the Major:
Mathematics -- two years high school algebra plus trigonometry or Math 3 and 7 or equivalent.
Chemistry -- one year high school chemistry or Chem 12 or equivalent.

Required Courses:
Units
Biol 2AB ...........General Biology I/II .................8
Chem 1AB ............General Chemistry I/II ..........12
Math 25AB ..........Calculus with Analytic Geometry I/II 10
Ph 20A/20AL .......Mechanics of Solids and Fluids/Lab ....5
Ph 20B/20BL .......Electricity and Magnetism/Lab ........5
Total minimum units required in major area = 40

Suggested Course Sequence:

First Semester
Chem 1A .....................6
Biol 2A .....................4
Math 16A ...................3
Ph 10A/10AL .............5

Second Semester
Chem 1B .....................6
Biol 2B .....................4
Math 16B ...................3
Ph 10B/10BL .............5

Total minimum units required in major area = 36

See Degree Requirements and Transfer Information section for General Education requirements.

Anatomy Courses

AN 1 – 4 Units
General Human Anatomy
Prerequisite: Biol 1 or Biol 2A or equivalent
Class Hours: 2 lecture, 6 laboratory
This is a study of the functional anatomy of human organs and organ systems with some histological studies, using non-human mammals for dissection, but with emphasis on the human structure and demonstrations on human cadavers. Transfer credit: CSU, UC maximum credit allowed – one course if combined with AnPhys 1, 1L. CAN: BIOL 10

45
AN 22A/B -- .5-.3/.5-3 Units
Independent Studies in Anatomy
Prerequisite: A previous course in Anatomy
Class Hours: 5-3 tutorial
This course is for students who are interested in furthering their knowledge of anatomy on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC

Anatomy/Physiology Courses

ANPHYS 1 -- 3 Units
Introduction to Human Anatomy and Physiology
Prerequisite: Biol 1 or equivalent college course
Corequisite: AnPhys 1L
Class Hours: 3 lecture
This course is a survey of human anatomy and physiology, covering major organ systems and their functions. Both microscopic and macroscopic functional morphology are emphasized. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with An 1 or Phys 1

ANPHYS 1L -- 2 Units
Introduction to Human Anatomy and Physiology Laboratory
Corequisite: AnPhys 1
Class Hours: 6 laboratory
This laboratory course in human anatomy and physiology covers major organ systems and their functions. Both microscopic and macroscopic functional morphology are emphasized. Dissection of a cadaver is used for demonstration. Physiological principles are illustrated with a variety of exercises and instruments. Transfer credit: CSU; UC

ANPHYS 1S -- 1 Unit
Anatomy and Physiology Study Session
Class Hours: 1 lecture
This course gives students opportunities to discuss and ask questions about material covered in the lecture and laboratory. Pre- and post-test reviews occur. Methods of taking notes and studying are considered. This course enables students to better comprehend course material and thus improve performance in the course.

Biology Courses

BIOI 1 -- 4 Units
Principles of Biology
Class Hours: 3 lecture, 3 laboratory
This is introductory biology for students not majoring in the natural sciences. Emphasis is on basic concepts, especially biological chemistry, cell biology, genetics, evolution and ecology. Particular attention will be given to the implications of biological areas in human affairs. Students planning to major in biology or related subject matter areas should enroll in Biol 2A. NOTE: Biol 1 is not a prerequisite for Biol 2B. Transfer credit: CSU; UC

BIOI 2A -- 4 Units
General Biology I
Prerequisite: Chem 12 or high school chemistry
Class Hours: 3 lecture, 3 laboratory
This course is the first semester of a two-semester sequence. This course covers biological chemistry, cell structure; function and regulation; bioenergetics, classical and molecular genetics, plant and animal development, and an introduction to evolution. Transfer credit: CSU; UC. CAN: BIO 2, CAN: BIOI SEQ A (Biol 2A & 2B)

BIOI 2B -- 4 Units
General Biology II
Prerequisite: Biol 2A or equivalent college course
Class Hours: 3 lecture, 3 laboratory
This course is the second semester of a two-semester sequence. The course covers diversity and function of living systems, survey of five kingdoms; mammalian physiological processes including neural, hormonal, muscular, immune response and behavior, ecology, ecosystems, pollution and evolution. Transfer credit: CSU; UC

BIOI 3 -- 3 Units
Marine Life and Its Environment
Class Hours: 2 lecture, 3 laboratory
This course is the study of marine life to include algae, microorganisms, and animal life. Inshore and offshore habitats will be studied. Students will visit local tide pools, beach, mud flat and fouling communities. Emphasis will be on integration of organisms within their habitat. Students will see the effect of human population on the local marine environment. The place of the ocean in our worldwide habitat will be discussed. Field trips will be required. Transfer credit: CSU; UC

BIOI 5 -- 3 Units
Field Biology
Class Hours: 2 lecture, 3 laboratory
This course is an introduction to the ecology, taxonomy, and natural history of plant life. Lecture topics include ecosystems, community structure, energy flow, nutrient cycling, evolution, and organismic adaptations to environment. Laboratories and field trips will stress plant identification and plant-animal-environment interactions as they occur in California: geological concepts are covered as they relate to vegetational processes in nature. Field trips will be required. Transfer credit: CSU; UC

BIOI 14 -- 3 Units
Natural History of Ventura County
Class Hours: 2 lecture, 3 laboratory
In this study of the natural features, animals and plants of Ventura County, the local ecological communities are visited and described. Attention is given to cultivated areas, Channel Islands. Human impact on the environment, and basic geological concepts are covered. Field trips will be required. Transfer credit: CSU

BIOI 16 -- 3 Units
Human Biology
Class Hours: 3 lecture
This course explores the human species as an animal and the place of the species in the biosphere. Especially considered are population, energy and agronomy, genetics, behavior, normal human physiology, stress, nutrition, fitness, aging and death. Transfer credit: CSU; UC

BIOI 17 -- 3 Units
Heredity, Evolution and Society
Class Hours: 3 lecture
This is an introduction to the basic principles of modern genetics and evolutionary theory with specific references to the human species. Through the study of mechanisms of human inheritance and the influence of the environment, the origin and nature of human differences will be examined. The emphasis will be upon the social, political and psychological ramifications of the biological laws governing heredity and organic evolution. These laws will be applied to analyze the world’s economic, demographic, and political problems with emphasis on future solutions. Transfer credit: CSU; UC

BIOI 22A/B -- .5-.3/.5-3 Units
Independent Studies in Biology
Prerequisite: A previous course in Biology
Class Hours: 5-3 tutorial
This course is for students who are interested in furthering their knowledge of biology on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 3 units. Transfer credit: CSU; UC. UC credit limitations.

Botany Courses

BOT 1 -- 5 Units
General Botany
Class Hours: 3 lecture, 6 laboratory
This introductory study of morphology; anatomy and physiology of plants emphasizes the biological principles of physical and chemical aspects of life. Cellular organization, reproduction, heredity, ecology, plant kingdom survey, with emphasis on seed plant anatomy and physiology will also be studied. Transfer credit: CSU; UC. CAN BIOL 6

BOT 22A/B -- .5-.3/.5-3 Units
Independent Studies in Botany
Prerequisite: A previous course in Botany
Class Hours: 5-3 tutorial
This course is for students who are interested in furthering their knowledge of botany on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

### Microbiology Courses

**MICR 1 -- 5 Units**

**Principles of Microbiology**

Prerequisites: Chem 12 or equivalent or high school chemistry and a satisfactory grade in Biol 1 or Biol 2A or equivalent

Class Hours: 3 lecture, 2 laboratory

The major groups of microbes are reviewed and sections on microbial structure, physiology, growth, genetics and control are included. The last third of the course deals with various aspects of pathobiology and includes immunity, mechanisms of pathogenicity and a review of infectious diseases and their control. The laboratory deals with standard methods of staining and culture of microbes, the solving of an unknown and growth requirements of many bacteria. Transfer credit: CSU; UC

**MICR 22A/B -- .5-.3/.5-.3 Units**

**Independent Studies in Microbiology**

Prerequisite: A previous course in Microbiology

Class Hours: 5-3 tutorial

This course is for students who are interested in furthering their knowledge of microbiology on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

### Physiology Courses

**PHYS 1 -- 5 Units**

**Human Physiology**

Prerequisites: Chem 12 or equivalent or high school chemistry and Biol 1 or Biol 2A or equivalent

Class Hours: 4 lecture, 3 laboratory

Students will study functions of the human organism; and basic structure as necessary to understand the physiological principle involved; laboratory experiments and/or demonstrations to illustrate basic physiological principles, techniques and instruments. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with AnPhys 1, 1L

**PHYS 2 -- 3 Units**

**Physiology of Nutrition**

Prerequisite: NIS 1

Class Hours: 3 lecture

This course is designed to offer an introduction to the physiological and molecular aspects of nutrition as opposed to a consumer orientation. The various systems of the body will be analyzed regarding the roles of nutrition and nutrients in normal function. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with NIS 1 or NIS 3

**PHYS 22A/B -- .5-.3/.5-.3 Units**

**Independent Studies in Physiology**

Prerequisite: A previous course in Physiology

Class Hours: 5-3 tutorial

This course is for students who are interested in furthering their knowledge of physiology on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

### Zoology Courses

**ZOO 1 -- 5 Units**

**General Zoology**

Class Hours: 3 lecture, 6 laboratory

This is a general zoology course covering cell biology, genetics, evolution, taxonomy, physiology, behavior and ecology of animals. Transfer credit: CSU; UC

**ZOO 22A/B -- .5-.3/.5-.3 Units**

**Independent Studies in Zoology**

Prerequisite: A previous course in Zoology

Class Hours: 5-3 tutorial

This course is for students who are interested in furthering their knowledge of zoology on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

---

**Botany**

All Botany courses are listed with the Biology courses. Refer to that section alphabetically for full course information.
## Business

Study in business leads to a wide range of opportunities in a variety of industries such as banking, health care/biotechnology, law, entertainment, defense, computer/electronics, and education, as well as in government and non-profit organizations. Upon completion of the baccalaureate degree, the student will be prepared for a career in specialized areas such as accounting, finance, investments, real estate, marketing, office administration, management, production, operations management, operations research, statistics, and computer information systems. Upon completion of the associate degree, the student will be prepared for various entry-level positions within these same organizations, for promotion from technical and specialty job functions into management positions, and/or for transfer to a baccalaureate program.

### Career Opportunities

<table>
<thead>
<tr>
<th>Associate Degree Level</th>
<th>Accounting</th>
<th>Order Processor</th>
<th>Management Trainee</th>
<th>Production Clerk</th>
<th>Quality Control Clerk</th>
<th>Marketing</th>
<th>Sales Representative</th>
<th>Market Research Assistant</th>
<th>Manufacturers Representative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Billing Clerk</td>
<td>Assistant Manager</td>
<td>Human Resources / Personnel Clerk</td>
<td>Shopping Clerk</td>
<td>Marketing Representative</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bookkeeper</td>
<td>Staff Assistant</td>
<td>Personnel Clerk</td>
<td>Finance Clerk</td>
<td>Bilingual Representative</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payroll Clerk</td>
<td>Assistant Manager</td>
<td>Small Business Owner</td>
<td>Retail Manager</td>
<td>Marketing Assistant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bachelors Degree Level</th>
<th>Accounting (B.A./B.S. level)</th>
<th>Management (B.A./B.S. level)</th>
<th>Administrative Assistant</th>
<th>Office Manager</th>
<th>Administrative Specialist</th>
<th>Human Resource Manager</th>
<th>Small Business Owner</th>
<th>Small Business Manager</th>
<th>Marketing (B.A./B.S. level)</th>
<th>Product Planner</th>
<th>Advertising Assistant</th>
<th>Account Executive</th>
<th>Manufacturers Representative</th>
<th>Communications Consultant</th>
<th>Advertising Manager</th>
<th>Merchandising Manager</th>
<th>Package Designer</th>
<th>Consumer Research Analyst</th>
<th>Industrial Marketing Manager</th>
<th>Customer Relations Manager</th>
<th>Staff Accountant</th>
<th>Securities Analyst</th>
<th>Management Accountant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost Accountant</td>
<td>Tax Specialist/Accountant</td>
<td>Management Trainee</td>
<td>Administration</td>
<td>Accounting</td>
<td>Marketing</td>
<td>Product Planning</td>
<td>Advertising</td>
<td>Package Design</td>
<td>Consumer Research Analyst</td>
<td>Industrial Marketing Manager</td>
<td>Customer Relations Manager</td>
<td>Staff Accountant</td>
<td>Securities Analyst</td>
<td>Management Accountant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assistant Controller</td>
<td>City or County Auditor</td>
<td>Supervisor</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controller</td>
<td>Revenue Agent</td>
<td>Area Manager</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Bank Examiner</td>
<td>Store Manager</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government Accountant</td>
<td>Credit Counselor</td>
<td>Branch Manager</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Budget Analyst</td>
<td>Estimator</td>
<td>Personnel Assistant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit Analyst</td>
<td>Investment Planner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appraiser</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Counselors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gerald Fecht*</td>
<td>Gail Goodman</td>
</tr>
<tr>
<td>Janice Feingold</td>
<td>Lisa Kaufman</td>
</tr>
<tr>
<td>Gary Izumo</td>
<td></td>
</tr>
<tr>
<td>Thomas Spraggins</td>
<td></td>
</tr>
<tr>
<td>James Wyman*</td>
<td></td>
</tr>
<tr>
<td>Kathleen Young*</td>
<td></td>
</tr>
</tbody>
</table>

* Full-time faculty with partial assignment in Business & partial assignment in other disciplines

<table>
<thead>
<tr>
<th>Part-Time</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>N. Dina Adler</td>
<td>Clinton Linger</td>
</tr>
<tr>
<td>Ronald Boots</td>
<td>Brian McGilvary</td>
</tr>
<tr>
<td>John Bruton</td>
<td>Tim McGrath</td>
</tr>
<tr>
<td>Melvin England</td>
<td>John McNamara</td>
</tr>
<tr>
<td>Sharon Foraker-Rippon</td>
<td>Carl Olson</td>
</tr>
<tr>
<td>Rollyn Habeck</td>
<td>Humberto Sanchez</td>
</tr>
<tr>
<td>John Handlos</td>
<td>Frances Sheppard</td>
</tr>
<tr>
<td>Richard Hoffing</td>
<td>Timothy Weaver</td>
</tr>
<tr>
<td>Paula Hoffman</td>
<td>Jeffrey Wofford</td>
</tr>
<tr>
<td>Thomas Lamonti</td>
<td></td>
</tr>
</tbody>
</table>

### Business

#### Associate in Science Degree

This program is designed to provide comprehensive training that will enable students to be employed in entry-level business positions. It is also designed to permit employed persons to gain skills leading to promotions.

### Core Courses

The core courses are intended to provide students with a multidisciplinary introduction to business. The student then selects one of three options for specialization. These options are intended to provide students with knowledge and skills for entry-level business positions or advanced study.

#### Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 2A</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Bus 2B</td>
<td>Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>Bus 30</td>
<td>Intro to Business and Economics</td>
<td>3</td>
</tr>
<tr>
<td>Bus 31</td>
<td>Introduction to Management</td>
<td>3</td>
</tr>
<tr>
<td>Bus 33</td>
<td>Business Law</td>
<td></td>
</tr>
<tr>
<td>Bus 34</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>Bus 39</td>
<td>Business Communication Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CIS 1</td>
<td>Intro to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 1L</td>
<td>CIS Introduction Lab</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Required Additional Courses:

Select one of the following options:

#### Management Option

Students are required to complete the core curriculum plus select six (6) units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 32</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>Bus 51</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>Bus 54</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

### Sales & Marketing Option

Students are required to complete the core curriculum plus select six (6) units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 35</td>
<td>Sales Techniques</td>
<td>3</td>
</tr>
<tr>
<td>Bus 36</td>
<td>Retail Merchandising</td>
<td>3</td>
</tr>
<tr>
<td>Bus 37</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Bus 38</td>
<td>Advertising</td>
<td>3</td>
</tr>
</tbody>
</table>

### Accounting Option

Students are required to complete the core curriculum plus the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 6</td>
<td>10-Key Mastery on the Computer</td>
<td>1</td>
</tr>
<tr>
<td>Bus 02C</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Units</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>BUS 8</td>
<td>Computerized Accounting</td>
<td>2</td>
</tr>
<tr>
<td>BUS 9A</td>
<td>Spreadsheets in Financial Accounting</td>
<td>2</td>
</tr>
<tr>
<td>BUS 9B</td>
<td>Spreadsheets in Managerial Accounting</td>
<td>1</td>
</tr>
</tbody>
</table>

Total minimum units required in major area -- 26-31

See Degree Requirements and Transfer Information section for General Education requirements.

### Associate of Arts Degree

**BUS 2A** Financial Accounting I .................................................. 3
**BUS 2B** Financial Accounting II ................................................. 3
**BUS 2C** Managerial Accounting .................................................. 3
**BUS 39** Business Communications ................................................ 3
**CIS 1** Introduction to Information Systems .................................... 3
**CIS 1L** Information Systems Lab .................................................. 1
**BUS 30** Introduction to Business & Economics .................................. 3

**AND**

**ECON 01** Introduction to Micro-Economics ...................................... 3

**OR**

**ECON 01** Introduction to Micro-Economics ...................................... 3

**AND**

**ECON 02** Introduction to Macro-Economics ...................................... 3
**BUS 34** Legal Environment of Business .......................................... 3

**OR**

**BUS 33** Business Law ................................................................. 3

Total minimum units required in major area - 25 units

See Degree Requirements and Transfer Information section for General Education requirements.

### Business Courses

#### BUS 1 -- 3 Units

**Preparation for Accounting**

- **Prerequisite:** Math 9 or equivalent or eligibility for Math 1
- **Class Hours:** 3 lecture

This course covers the fundamentals of double-entry bookkeeping and the debit/credit method of recording transactions. The bookkeeping cycle, from recording transactions to preparing financial statements, is included. Primary emphasis is on service and merchandising concerns operating as sole proprietorships.

**BUS 2A -- 3 Units**

**Financial Accounting I**

- **Prerequisites:** BUS 1 or equivalent
- **Recommended Prep:** Math 03 or equivalent and completion of ENGL 02 or eligible for ENGL 01A as measured by the college assessment process.
- **Class Hours:** 3 lecture

This is a required course for all students intending to major in any business discipline. It examines financial accounting from both the use and preparer perspectives—examining what accounting is, why it is important, how it is used by economic decision makers, and the principles controlling how the information is recorded and presented. Focus is on operating and investing activities. Topics covered include: the accounting cycle, the financial statements of service and merchandising entities, information systems, internal control, and ethical issues. **Transfer credit:** CSU; UC maximum credit allowed - one course when combined with BUS 2B.

**BUS 2B -- 3 Units**

**Financial Accounting II**

- **Prerequisite:** BUS 2A
- **Recommended Prep:** Math 03 or equivalent and completion of ENGL 02 or eligible for ENGL 01A as measured by the college assessment process.
- **Class Hours:** 3 lecture

This is a required course for all students intending to major in any business discipline. It continues the examination of financial accounting started in Financial Accounting I. Focus is on financing activities related to debt and equity. Topics covered include corporate accounting issues, stockholders' equity transactions, reporting issues for global corporations, preparation and use of the Statement of Cash Flows, and financial statement analysis. **Transfer credit:** CSU; UC maximum credit allowed - one course when combined with BUS 2A.

**BUS 2C -- 3 Units**

**Managerial Accounting**

- **Prerequisites:** BUS 2B
- **Recommended Prep:** MATH 03 or equivalent
- **Class Hours:** 3 lecture

This course completes the introduction to accounting by focusing on its use by managers in making internal decisions relating to product/service costing, pricing, cost analysis and control, operational and capital budgeting, and responsibility accounting. This course is intended as a foundation for advanced study in business. **Transfer credit:** CSU; UC

**BUS 7 -- 3 Units**

**Income Tax Law**

- **Class Hours:** 3 lecture

This course is designed to help students understand the federal and California principles of income tax law as they relate to individual income taxes and for sole proprietorships. The preparation of federal and state income tax forms will be covered. **Transfer credit:** CSU

### Accounting Applications

**Certificate of Achievement**

This program offers basic training in accounting for both students seeking employment and those already employed but needing skills improvement. Successful program completion should qualify individuals for beginning positions in accounting occupations.

**Required Courses:**

- BUS 1 Beginning Typewriting/Keyboarding ..................................... 1
- BUS 6 10-Key Mastery on the Computer .......................................... 1
- BUS 10A Intro to the PC and DOS .................................................. 1
- BUS 2A Financial Accounting Principles ........................................ 3
- BUS 2B Financial Accounting Principles II ..................................... 3
- BUS 8 Computerized Accounting .................................................. 2
- BUS 9A Spreadsheets in Financial Accounting ................................... 2
- BUS 30 Intro to Business and Economics ....................................... 3
- BUS 31 Business Communication Techniques .................................... 3
- CIS 1 Intro to Information Systems ................................................ 3
- CIS 1L CIS Introduction Lab ....................................................... 1

Total minimum units required -- 23

### Management

**Certificate of Achievement**

**BUS 2A** Financial Accounting I .................................................. 3
**BUS 2B** Financial Accounting II .................................................. 3
**BUS 2C** Managerial Accounting .................................................... 3
**BUS 30** Introduction to Business and Management ................................ 3
**BUS 31** Introduction to Management .............................................. 3
**BUS 32** Small Business Management ............................................... 3
**BUS 34** Legal Environment of Business ......................................... 3

**or**

**BUS 33** Business Law ................................................................. 3
**BUS 39** Business Communications ................................................ 3
**BUS 51** Human Resource Management ............................................ 3
**CIS 01** Introduction to Information Systems .................................... 3
**CIS 01L** Information Systems Lab .................................................. 1

Total minimum units required - 31

**Certificate of Completion**

This Certificate of Completion in Management offers the fundamental skills of students seeking to be managers in today's business world. Successful completion of the program should qualify individuals for entry level management positions.
BUS 8 -- 2 Units
Computerized Accounting
Prerequisites: Bus 2A, BIS 10A or equivalent
Class Hours: 1 lecture, 3 laboratory
Basic principles of accounting are studied and related to computerized accounting. Students become acquainted with the use of microcomputers in the field of accounting. Areas of emphasis are computerized general ledger, depreciation, accounts receivable, accounts payable, payroll and financial statements.

BUS 9A -- 2 Units
Spreadsheets in Financial Accounting
Prerequisites: Bus 2B or concurrent enrollment, BIS 10A or equivalent
Class Hours: 1 lecture, 3 laboratory
This course provides accounting students with knowledge of and experience with the use of microcomputers in financial accounting applications. Emphasis is on the use of spreadsheet software for recording business transactions, and preparation of the worksheet and financial statements. Use of databases for control of inventory and property, plant, and equipment, as well as current asset calculations are also included. Transfer credit: CSU

BUS 9B -- 1 Unit
Spreadsheets in Managerial Accounting
Prerequisite: Bus 9A
Corequisite: Bus 2C
Class Hours: 1 lecture, 3 laboratory for 8 weeks
This course provides accounting students with knowledge of and experience with the use of microcomputers in managerial accounting applications. Emphasis is on the use of database software in performance evaluation, cost-volume-profit analysis through use of macros, and capital budgeting through what-if analysis. Transfer credit: CSU

BUS 22A/B -- 1-3/1-3 Units
Independent Studies in Business
Prerequisite: A previous course in Business
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of business on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

BUS 28 -- 3 Units
Business English
Class Hours: 3 lecture
Competency in the fundamentals and mechanics of business English usage is developed. Study includes grammar, sentence structure, punctuation, proofreading and written expression. Students are provided a background to write business letters and business reports. Transfer credit: CSU

BUS 30 -- 3 Units
Introduction to Business and Economics
Recommended Prep: Completion of ENGL 02 or eligible for ENGL 01A as measured by college assessment process
Class Hours: 3 lecture
This course examines the basic concepts and functions of business and the application of economic principles to the operation of business. It explores business organization, ethics, finance, accounting, securities markets, supply and demand, the banking system, and international business. Emphasis is placed on the practical application of business principles in a contemporary economic and social environment. (Co-numbered ECON 30) Transfer credit: CSU; UC

BUS 31 -- 3 Units
Introduction to Management
Recommended Preparation: Bus 30/Econ 30 and completion of ENGL 02 or eligibility for ENGL 01A as measured by the college assessment process
Class Hours: 3 lecture
This course will develop the fundamental concepts of management as applied to the performance of organizations, teams, and individuals. Topics such as strategic planning, organizational design, the evolving role of management, leadership, and business ethics will be addressed in the context of a changing and multicultural/international environment. Transfer credit: CSU

BUS 32 -- 3 Units
Small Business Management
Recommended Prep: Bus 30/ECON 30 and completion of ENGL 02 or eligibility for ENGL 01A as measured by the college assessment process
Class Hours: 3 lecture
This course focuses on how to establish and manage a business. Topics include planning, financing, staffing, marketing, site selection, budgeting, legal concerns and regulatory issues. Students will gain an understanding of the rewards and perils of owning a business. Transfer credit: CSU

BUS 33 -- 3 Units
Business Law
Recommended Prep: Bus 30/ECON 30 and completion of ENGL 02 or eligibility for ENGL 01A as measured by the college assessment process
Class Hours: 3 lecture
This course deals with the fundamental principles of law pertaining to business transactions, including origins of the legal systems and procedures. Primary focus is on contract law with additional coverage of sales, torts, real and personal property, bailments and consumer protection. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with Bus 34

BUS 34 -- 3 Units
Legal Environment of Business
Recommended Preparation: Bus 30/Econ 30 and completion of ENGL 02 or eligibility for ENGL 01A as measured by the college assessment process
Class Hours: 3 lecture
This course provides an overview of law and the legal system for business. Topics include contract and tort law as they apply to business and commerce, and the legal process and system, with primary emphasis on governmental regulation of business in the areas of employment, consumer transactions, competition and the environment. In covering each topic focus is on public policy, ethical issues, and management of concerns as they relate to domestic and international legal situations. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with BUS 33

BUS 35 -- 3 Units
Sales Techniques
Recommended Preparation: Bus 30/Econ 30
Class Hours: 3 lecture
This course covers the fundamental principles of personal selling. Emphasis is placed on sales techniques, sales personality, sales planning, securing prospects, counseling buyers, handling objections, public relations and business ethics. Students will participate in the planning and presentation of actual sales demonstrations. Transfer credit: CSU

BUS 36 -- 3 Units
Retail Merchandising
Recommended Preparation: Bus 30/Econ 30
Class Hours: 3 lecture
Management and merchandising activities in small and large retail operations are presented from the standpoint of the retail manager or owner. The course includes topics such as business plan, budgeting, buying behaviors, site selection, hiring, competition, pricing, management techniques, marketing, merchandising and selling. Transfer credit: CSU

BUS 37 -- 3 Units
Marketing
Recommended Preparation: Bus 30/Econ 30
Class Hours: 3 lecture
A review of marketing from production to consumer, this course includes such topics as market research, marketing strategy, product development, environmental constraints, pricing, promotion and selection of appropriate channels of distribution. Transfer credit: CSU
BUS 38 -- 3 Units
Advertising
Recommended Preparation: Bus 30/Econ 30
Class Hours: 3 lecture
Students examine the role of advertising in the marketing programs in business and industry. Topics include consumer analysis, ad media, budgeting, market research, layout, copy-writing, typography, advertising agencies and opportunities in advertising. Transfer credit: CSU

BUS 39 -- 3 Units
Business Communication Techniques
Recommended Preparation: Equivalent skills which may be measured by the college assessment process or satisfactory completion of ENGL 02 or BUS 28. Ability to use a word processing program.
Class Hours: 3 lecture
This course is a survey of effective communications in the modern business organization. It provides practical training in analyzing and preparing business letters, brief business summaries and reports, and effective oral presentations. Emphasis is on methods for gathering, organizing, analyzing, and presenting information for decision making. Topics include interviewing and negotiation skills as well as the impact of cultural differences on business communications. Transfer credit: CSU

BUS 42 -- 3 Units
Business and Society
Class Hours: 3 lecture
This course explores important issues including corporate responsibility, career/job satisfaction, ethics in the workplace, technological change and environmental health concerns. Specific readings from modern literature and analysis of relevant art and film production will be used to study the course topics. (co-numbered Hum 42) Transfer credit: CSU

BUS 51 -- 3 Units
Human Resources Management
Class Hours: 3 lecture
This course presents the process of obtaining and developing an efficient work force. Topics include human resource planning, recruitment, selection, placement, training, development, safety, benefits and legal and regulatory concerns. Transfer credit: CSU

BUS 54 -- 3 Units
Organizational Behavior
Recommended Preparation: Bus 30/Econ 30 and Bus 31
Class Hours: 3 lecture
This course is designed to teach managers organizational behavior techniques appropriate for the contemporary workplace environment. These techniques relate to the individual employee behaviors and also address group behaviors. The course culminates in managing the entire organizational process and the related dynamics. Transfer credit: CSU

BUS 56 -- 3 Units
Business and Professional Speech
Class Hours: 3 lecture
Designed to hone the speech skills of business and industrial personnel in leadership positions, this course covers topics as presentation techniques, group and meeting dynamics, argumentation and persuasion, and structure content and organizations. Individual attention will be given to the needs and interests of the student. (co-numbered Spch 56) Transfer credit: CSU

BUS 60A-Z -- 1-3 Units
Topics in Business
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Business not covered in detail in the general Business course offerings. Topic courses are announced on a semester basis in the schedule of classes.

BUS 89A-Z -- 5-3 Units
Institutes in Business*
Class Hours: Variable
This is a series of special lectures and discussions on selected topics to be chosen as demand and opportunities arise. These will be of great interest to the business/economics student.
Business Information Systems

Instruction is provided for those interested in office occupations. Emphasis is placed on state-of-the-art automated office applications leading to skill attainment needed in today's modern office environment.

Career Opportunities

A.S. Level
Office Manager
Word Processor
Office Clerk
Administrative Aide

Data Entry Clerk
Receptionist
Data Entry Operator

Faculty

Full-Time
Part-Time
Counselor

Shay Collier
Stephen Abrams
Lisa Rauman

Louis Wolff
Ronald Barry

Bruce Bassin

Henry Bouma
Guy Campbell

Joan Cantrell
Marjorie Corbell

Maria Ellis
Carole Eustice
Timothy Hedrick

Cathy Kriss
Mark Jean Lewis
Kelly Maccone

Delores Moon
Christopher Vender

Microcomputer Applications

Certificate of Achievement

This program offers basic and advanced training in a variety of widely-used computer applications programs. It is intended to provide instruction to students seeking employment, as well as those already employed but requiring upgrading of computer skills. Successful program completion will provide comprehensive training toward entry-level positions in an assortment of occupations in local business and industry.

Required Courses:

<table>
<thead>
<tr>
<th>Units</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BIS 10A Intro to the PC and DOS</td>
</tr>
<tr>
<td>1</td>
<td>BIS 19 Introduction to Windows</td>
</tr>
<tr>
<td>3</td>
<td>Bus 39 Business Communication Techniques</td>
</tr>
</tbody>
</table>

Required Additional Courses:

Select one (1) Word Processing A/B combination:

<table>
<thead>
<tr>
<th>Units</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/1</td>
<td>BIS 15A/B Begin/Advanced WordPerfect for Windows</td>
</tr>
<tr>
<td>1/1</td>
<td>BIS 21A/B Word for Windows III</td>
</tr>
</tbody>
</table>

Select six (6) units from the following courses:

<table>
<thead>
<tr>
<th>Units</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>BIS 10B Advanced DOS Functions</td>
</tr>
<tr>
<td>0.5</td>
<td>BIS 10C Hard Disk Management (DOS)</td>
</tr>
<tr>
<td>1/1</td>
<td>BIS 13A/B Lotus 1-2-3 III</td>
</tr>
<tr>
<td>1/2</td>
<td>BIS 14A/B Intro to Database IV/Programming dBASE IV</td>
</tr>
<tr>
<td>1/1</td>
<td>BIS 15A/B/III WordPerfect III</td>
</tr>
<tr>
<td>1/1</td>
<td>BIS 20A/B Begin/Advanced WordPerfect for Windows</td>
</tr>
<tr>
<td>1/1</td>
<td>BIS 21A/B Word for Windows III</td>
</tr>
<tr>
<td>1/1</td>
<td>BIS 24A/B Excel for Windows 1/II</td>
</tr>
</tbody>
</table>

Total minimum units required -- 14

Special Note: Many of the BIS courses that follow are applicable toward the Computer Information Systems Certificate of Achievement and Associate in Science Degree programs.

Business Information Systems Courses

BIS 1 -- 1 Unit

Basic Computer Keyboarding

Course Description:

Class Hours: 6 laboratory for 8 weeks

This course represents beginning keyboarding techniques for inputting information on computers. Emphasis is on the use of methods to build speed and accuracy to a speed of 20 words per minute. The custom-designed program guides students through the process of learning the keyboard while working in WordPerfect. No previous computer or typewriter experience is required. Not recommended for those who have taken a previous typing/keyboarding class. Students receiving credit in BIS 1 may not receive credit in BIS 1R. May be taken two (2) times for credit.

BIS 1R -- .5 Unit

Keyboarding Review

Recommended Preparation: A previous course in typing/keyboarding

Class Hours: 3 laboratory for 8 weeks

This course provides a review for those students who have had previous keyboarding experience and wish to renew their typing/keyboarding skills. Students receiving credit in BIS 1R may not receive credit in BIS 1.

BIS 2 -- 1 Unit

Intermediate Computer Keyboarding

Prerequisites: BIS 1, or BIS 1R, or ability to touch type 20 wpm

Class Hours: 6 laboratory for 8 weeks

This course is for the student who types at a speed of 20 words per minute. The custom-designed program guides students through the process of learning the figure and symbol keys, as well as speed building and accuracy development.

BIS 3 -- 1 Unit

Computer Keyboarding / Speed Building

Prerequisite: BIS 2 or the ability to type 35 wpm

Class Hours: 6 laboratory for 8 weeks

The emphasis in this course is on the continued development of keyboarding skills. A programmed series of timings and drills are designed to build speed and improve accuracy and can be customized to each student's particular needs. Course grade is based on the degree of improvement. May be taken two (2) times for credit.

BIS 6 -- 1 Unit

10-Key Mastery on the Computer

Prerequisite: BIS 1A or equivalent

Class Hours: 1 lecture, 3 laboratory for 8 weeks

This course is designed for the student who needs to master the numeric keyboard and develop speed and accuracy for data entry applications or for spreadsheet and database applications in a bookkeeping/accounting environment.

BIS 10A -- 1.5 Units

Introduction to the Personal Computer

Prerequisite: BIS 1 or equivalent

Class Hours: 16 lecture, 24 laboratory total

This course provides the novice with a brief look at computer terminology and Disk Operating System (DOS) concepts. Beginning DOS commands are studied. Also included is a brief look at Windows and how it compares with DOS as an operating system. May be taken three (3) times for credit.

BIS 10B -- 1.5 Units

Advanced DOS Functions

Prerequisite: BIS 10A

Class Hours: 16 lecture, 24 laboratory total

This course adds to the essentials of BIS 10A and explores the inner workings of DOS. The course includes expanded exposure to subdirectories, file management, backup and recovery techniques, and batch files. May be taken three (3) times for credit.

BIS 12 -- 1 Unit

Access for Windows

Prerequisite: BIS 19
This course presents essential introductory features of WordPerfect 6.1 for Windows. Topics covered include editing a document, formatting characters, formatting lines, changing margins and indents, using writing tools and producing customized documents. May be taken three (3) times for credit.

BIS 20B -- .5 Units
WordPerfect for Windows Part 2
Prerequisite: BIS 20A
Class Hours: 3 laboratory for 8 weeks
This course is a continuation of WordPerfect for Windows Part 1. Topics include advanced character and line formatting, inserting and creating graphics, changing paper size, creating columns, numbered paragraphs, outlines, headers, footers, footnotes and endnotes. May be taken three (3) times for credit.

BIS 20C -- .5 Units
WordPerfect for Windows Part 3
Prerequisite: BIS 20b
Class Hours: 3 laboratory for 8 weeks
This course is a continuation of WordPerfect for Windows, Part 2. Topics included are the merge feature, sorting data, desktop publishing, clipart, textart, WordPerfect styles, automated forms, locked cells and macros. May be taken three (3) times for credit.

BIS 21A -- .5 Units
Word for Windows Part 1
Prerequisite: BIS 19 or equivalent
Class Hours: 2 lecture, 3 laboratory for 8 weeks
This is a beginning course in Microsoft Word for Windows. Topics included are starting Word for Windows and creating a Word document; editing a document; formatting characters, paragraphs, and pages; changing fonts; using spell check, AutoCorrect, and the Thesaurus; manipulating tabs, inserting headers and footers, and creating footnotes and endnotes. May be taken three (3) times for credit.

BIS 21B -- .5 Units
Word for Windows Part 2
Prerequisite: BIS 21A
Class Hours: 3 laboratory for 8 weeks
This course is a continuation of Word for Windows Part 1. Topics include cutting and pasting text; working with multiple windows; conducting a find and replace; printing; formatting with templates and macros; adding borders, frames and pictures; and using Microsoft draw, WordArt and equation editor. May be taken three (3) times for credit.

BIS 21C -- .5 Units
Word for Windows Part 3
Prerequisite: BIS 21B
Class Hours: 3 laboratory for 8 weeks
This course presents advanced page and document formatting in the Word for Windows program. Skills include creating tables and charts; formatting text into columns; merging documents; sorting and selecting text and records; creating outlines, tables, indexes, and fill-in forms; and formatting with styles. May be taken three (3) times for credit.

BIS 22A/B -- 1-3/1-3 Units
Independent Studies in Business Information Systems
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of business information systems on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units.

BIS 23 -- 3 Units
Desktop Publishing I (IBM Compatible)
Prerequisite: GC 20 or equivalent
Class Hours: 2 lecture, 3 laboratory
This course will introduce the student to desktop publishing using Aldus PageMaker through the Windows environment. Emphasis will be placed on the fundamentals and basic operating procedures of PageMaker. Through practical applications the student will create camera-ready documents observing the principles of layout and typography. (co-numbered GC 23A)
BIS 24A -- 1.5 Units  
Excel for Windows Part 1  
Prerequisite: BIS 19  
Class Hours: 2 lecture, 3 laboratory for 8 weeks  
This is a comprehensive introduction to the basics of an electronic spreadsheet. Students will become familiar with Excel's desktop environment and learn how to enter data, select commands, move the cell cursor around the worksheet, get help, save a worksheet in a workbook file, and print a range of data. May be taken three (3) times for credit.

BIS 24B -- .5 Units  
Excel for Windows Part 2  
Prerequisite: BIS 24A or equivalent  
Class Hours: 3 laboratory for 8 weeks  
In this course, students will learn to choose the appropriate chart and visual elements for professional presentations that will display analyses of investment or other financial decisions. Emphasis will be on linking, embedding, and consolidating worksheets, as well as designing a list or database. Database manipulation to extract specific criteria will be included. May be taken three (3) times for credit.

BIS 31 -- 2 Units  
Adaptive Business Information Systems  
Prerequisites: ACT 2 or concurrent enrollment and knowledge of the keyboard  
Class Hours: 1 lecture, 3 laboratory  
This course is an introduction to the IBM Personal Computer, DOS functions, WordPerfect, and is an exploration of computer vocations. The curriculum is designed to be directed toward physically and learning disabled students and will be presented in approaches adapted for each student's specific disability. Additionally, students will be exposed to programs intended to assess and to build positive attitudes toward chosen vocations. Also covered will be resume writing and interviewing techniques. May be taken four (4) times for credit.

BIS 60A-Z -- .5-3 Units  
Topics in Business Information Systems  
Prerequisites: To be determined with each Topic  
Class Hours: To be determined with each Topic  
This is a special series of courses each of which deals with a specific topic in Business Information Systems not covered in detail in the general Business Information Systems course offerings. Topic courses are announced on a semester basis in the schedule of classes.

Topics which have been developed include:

60A -- .5 Unit  
WordPerfect Workshop★  
Prerequisite: BIS 1 or equivalent  
Class Hours: 1 lecture, 3 laboratory for 4 weeks  
This course is offered to non-majors who wish to prepare papers on a computer. Students will learn to create, edit, save, and print a document using a popular word processing program.
Chemistry

A wide range of opportunities awaits the chemist in business, industry, government, and in the field of education. Approximately three-fourths of all chemists are employed by private industry in such fields as petroleum, primary metals, electrical equipment, aerospace, paper, food, and rubber.

Career Opportunities

B.S. Level
(Most careers require bachelors or graduate degree)
Chemist
Research Assistant
Chemical Analyst
Laboratory Technician
Genetic Engineering Technician
Restoration Technician, Museum
Food and Drug Agency Trainee
Art Restoration Specialist
Sanitation
Research Scientist
Biochemist
Science Writer
Patent Researcher
Science Abstractor
Pharmacy Assistant

Faculty

Full-Time: Eugene Berg
Deanna Franke
Richard Kuræk
David Murphy

Part-Time: Hyia Acheson
Dennis Anderson
Gary Gilmartin
Vahak Harutunian
Marjorie Leerabrand
William Lockman
Robert Miller
George Ogud
Bernadine Reeves
Ronald Surdzial

Counselors: Mary Martin
Dana Redd Terry

Chemistry

Associate in Arts Degree

This program is designed to award a designated associate degree to those students who have completed a course of specialization in Chemistry. These requirements were chosen by faculty to optimize students' preparation for upper-division course work for Bachelor of Arts degrees in Chemistry offered by four-year institutions. Since the course work in chemistry is sequential, students may spend less time earning an Associate in Arts Degree and/or Bachelor of Arts Degree by deferring some of the university general education requirements until their Junior and Senior years and giving priority to the requirements for a major in chemistry. In addition, the earning of this degree will be evidence of achievement of technical skills which may be helpful towards the seeking of immediate employment.

Preparation for the Major:
Mathematics — two years high school algebra plus trigonometry or Math 3 and 7 or equivalent.
Chemistry — one year high school chemistry or Chem 12 or equivalent.

Physics — one year high school physics or Ph 10A or equivalent.
Chemistry students are strongly encouraged to take advantage of summer school class offerings.

Required Courses:

Chem 1A ……….. General Chemistry I ……….. 6
Chem 1B ……….. General Chemistry II ……….. 6
Chem 8 ………..Elementary Organic Chemistry ……….. 4
Chem 8L ……….. Organic Chemistry Lab ……….. 2
Math 16A ………..Applied Calculus I ……….. 3
Math 16B ………..Applied Calculus II ……….. 3
Ph 10A/10AL ………..General Physics I/Lab ……….. 5
Ph 10B/10BL ………..General Physics II/Lab ……….. 5

Total minimum units required in major area — 34

Suggested Course Sequence:

First Semester
Chem 1A ……….. 6
Math 25A ……….. 5
Ph 10A/10AL ……….. 5

Second Semester
Chem 1B ……….. 6
Math 25B ……….. 5
Ph 20A/20AL ……….. 5

Third Semester
Math 16A ……….. 3
Ph 10A/10AL ……….. 5

Fourth Semester
Chem 8 ……….. 4
Chem 8L ……….. 2
Ph 10B/10BL ……….. 5

See Degree Requirements and Transfer Information section for General Education requirements.

Recommended Course: Math 35

Suggested Course Sequence:

First Semester
Chem 1A ……….. 6
Math 25A ……….. 5

Second Semester
Chem 1B ……….. 6
Math 25B ……….. 5
Ph 20A/20AL ……….. 5

Third Semester
Math 16A ……….. 3
Ph 10A/10AL ……….. 5

Fourth Semester
Chem 8 ……….. 4
Chem 8L ……….. 2
Ph 10B/10BL ……….. 5

See Degree Requirements and Transfer Information section for General Education requirements.
Chemistry Courses

CHEM 1A -- 6 Units
General Chemistry I
Prerequisites: Chem 12 or equivalent college course or one year of high school chemistry and Math 3 or equivalent college course, or eligibility for Math 5 or higher
Class Hours: 5 lecture, 3 laboratory
LECTURE: Topics covered include: atomic theory and stoichiometry; thermodynamics; quantum theory and electronic structure of atoms; chemical bonding and molecular structure; physical behavior of gases; states of matter and phase equilibria; solutions; titrations and qualitative analysis.
LABORATORY: Use of analytical balance; spectroscopy; gravimetric and volumetric analysis; stoichiometry; thermochemistry; solutions; titrations; qualitative analysis; colligative properties and distillations. Transfer credit: CSU; UC: CAN: CHEM 2

CHEM 1B -- 6 Units
General Chemistry II
Prerequisites: Chem 1A or equivalent college course and Math 5 or equivalent college course, or eligibility for Math 25A or higher
Class Hours: 5 lecture, 3 laboratory
LECTURE: Topics covered include: phase equilibria; equilibria in gases and solutions; thermodynamics; chemical kinetics; precipitation reactions; acids and bases; complex ions; oxidation-reduction and electrochemistry; quantitative and qualitative analysis, and nuclear chemistry.
LABORATORY: Use of equilibria; thermodynamics; chemical kinetics; electrochemistry; titrations and qualitative analysis. Transfer credit: CSU; UC: CAN: CHEM 4

CHEM 7A -- 5 Units
General Organic Chemistry I
Prerequisite: Chem 1B or equivalent college course
Class Hours: 3 lecture, 6 laboratory
This course stresses molecular structure, chemical and physical properties, and the preparation of organic compounds with an emphasis on reaction mechanism, structure determination, synthesis, and applications. Laboratory experience involves using the appropriate methods, techniques, and instrumentation for the synthesis purification and identification of the organic compounds discussed in the lecture portion of the course. This is the first semester of a one-year course to fulfill the organic chemistry requirement of those majors requiring a full year of organic chemistry. Transfer credit: CSU; UC maximum credit allowed -- 6 units if combined with Chem 8 and 8L

CHEM 7B -- 5 Units
General Organic Chemistry II
Prerequisite: Chem 7A or equivalent college course
Class Hours: 3 lecture, 6 laboratory
This course continues the study of functional groups such as carboxylic acids and their derivatives, carboxyls, amines and phos. The emphasis is on reaction mechanism, structure determination using nuclear magnetic resonance and infrared spectroscopy, synthesis and applications. A part of this semester is devoted to the study of biochemistry. Practical experience for the lecture concepts will be provided by the laboratory. Transfer credit: CSU; UC

CHEM 8 -- 4 Units
Elementary Organic Chemistry
Prerequisite: Chem 1A or Chem 12
Class Hours: 4 lecture
A study of the properties and reactions of carbon compounds with emphasis on structure and mechanism. Topics covered include: synthesis and characterization of organic compounds; nomenclature; biochemistry. Transfer credit: CSU; UC maximum credit allowed -- 6 units if combined with Chem 7A and 8L

CHEM 8L -- 2 Units
Organic Chemistry Lab
Prerequisite: Chem 8 (may be taken concurrently)
Class Hours: 6 laboratory
This lecture-laboratory course deals with the synthesis, characterization and spectroscopic analysis of organic compounds. Transfer credit: CSU; UC maximum credit allowed -- 6 units if combined with Chem 7A and 8
Chicano Studies

The Chicano Studies curriculum examines the ethnic experience in America from historical, social, cultural, and political perspectives. Study of the Chicano enables the student to better understand the rich heritage of the American Southwest as well as providing a baseline for further study of other ethnic groups.

Career Opportunities

B.A. Level
Diplomat Corps
Foreign Office
Foreign Correspondent
News Analyst
Writer
Import-Export Trade

Social Worker
Travel Guide
Translator
Company Representative
Advertising
Community Development

Faculty

Full-Time
Tomás Sanchez

Counselor
Ofelia Romero-Motlagh

Chicano Studies Courses

CH ST 1 -- 3 Units
The Chicano in Contemporary Society
Class Hours: 3 lecture
This course is an analysis of the socioeconomic and political problems confronting the Chicano with emphasis on proposed solutions. Similarities to other ethnic groups will be incorporated in this analysis. Particular focus is placed on the effects that social institutions have had on the ethnic communities of the Southwest. (co-numbered Soc 6)
Transfer credit: CSU; UC

CH ST 2 -- 3 Units
Chicano Culture
Class Hours: 3 lecture
This study of the social and cultural heritage of the Chicano emphasizes middle American civilizations, and includes the cultural evolution of the Chicano, from the Spanish conquest to present-day America. The course is concerned with the contributions made by the Chicanos to the United States culture, especially in the fine arts, literature, and orally-transmitted heritage. (co-numbered Anth 4) Transfer credit: CSU; UC

CH ST 4 -- 3 Units
History of the Southwest
Class Hours: 3 lecture
This course surveys the history of the Chicano from pre-Columbian period to the present. Emphasis will be on the Mexican settlement of the American Southwest and the contributions of the Chicano to the development of the five Southwestern states (Arizona, California, Colorado, New Mexico, and Texas) in the context of American History. (co-numbered Hist 4) Transfer credit: CSU; UC

CH ST 8 -- 3 Units
Political Patterns in the U.S.
Class Hours: 3 lecture
Fundamental principles of U.S. Government: federal, state and local are studied in theory and practice. Emphasis is on state and local government of the Southwest, with particular attention given to the legislative process, political parties, pressure groups, and implementation of policy at county and municipal levels. Special emphasis is placed on the participation of the Mexican-American in our political institutions. (co-numbered Pol Sci 6) Transfer credit: CSU; UC

CH ST 22A/B -- 1-3/1-3 Units
Independent Studies -- The Chicano
Prerequisite: A previous course in Chicano Studies
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of Chicano studies on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.
Child Development

The Child Development Program prepares students for completion of the certificate in Early Childhood Education or an A.S. Degree in Child Development. Students develop subject matter, knowledge, and skills needed for success in occupational areas as well as transfer to a college or university. This program will be of interest to students who seek work in any of a variety of positions such as teacher or administrator in preschool settings, playground and recreation supervisors, parent educators, and other positions involving work with children and their families.

Career Opportunities

Preschool Teacher
Teacher's Aide
Parent Educator
Residential Care Worker
Preschool Director
Family Day-Care Provider

Camp Counselor
Children's Book Author
Children's Television Producer
Children's Toy Designer
Children's Toy Marketeer

Faculty

Full-Time Part-Time Counselors
Linda Cravens Rosalie Bergman Rick Cardoni
Kathleen Reid Dianne Cohn José de la Peña
Bonnie Huston Carol Howell Mary Martin
Jennifer Lynch Herlinda Murguia Kathleen Reiter
Christabel Schadt Dianne Smith Maria Smith-Green

Child Development
Assosciate in Science Degree

This program offers comprehensive training of students who wish to work with young children in Early Childhood settings and to those who wish to transfer to four year universities and colleges. Career opportunities are increasing and are available to both men and women. (Teacher - Title 5)

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 30</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>CD 32</td>
<td>Child Nutrition, Health &amp; Safety</td>
<td>2</td>
</tr>
<tr>
<td>CD 36</td>
<td>Equity Issues in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD 38</td>
<td>Practicum I - Observation</td>
<td>3</td>
</tr>
<tr>
<td>CD 39A</td>
<td>Practicum II - Participation</td>
<td>3</td>
</tr>
<tr>
<td>CD 39B</td>
<td>Practicum III - Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>CD 40</td>
<td>Child/Family/Community</td>
<td>3</td>
</tr>
<tr>
<td>CD 41</td>
<td>Programs in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD 43</td>
<td>ECE Adult Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Additional Courses:

Select six (6) units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 51</td>
<td>Music in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD 52</td>
<td>Art in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD 53</td>
<td>Science &amp; Math in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD 54</td>
<td>Language Arts in ECE</td>
<td>3</td>
</tr>
</tbody>
</table>

Early Childhood Education
Certificate of Achievement

This program offers training to students interested in working with young children in Early Childhood settings.

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 30</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>CD 32</td>
<td>Nutrition/Health/Safety</td>
<td>2</td>
</tr>
<tr>
<td>CD 36</td>
<td>Equity Issues in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD 38</td>
<td>Practicum I - Observation</td>
<td>3</td>
</tr>
<tr>
<td>CD 39A</td>
<td>Practicum II - Participation</td>
<td>3</td>
</tr>
<tr>
<td>CD 39B</td>
<td>Practicum III - Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>CD 40</td>
<td>Child/Family/Community</td>
<td>3</td>
</tr>
<tr>
<td>CD 41</td>
<td>Programs in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD 43</td>
<td>ECE Adult Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Additional Courses:

Select six (6) units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 51</td>
<td>Music in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD 52</td>
<td>Art in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD 53</td>
<td>Science &amp; Math in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD 54</td>
<td>Language Arts in ECE</td>
<td>3</td>
</tr>
</tbody>
</table>

School Age Child Care
Certificate of Achievement

This program offers training to students who are interested in being employed in School Age Child Care settings such as Family Day Care, Recreation Programs, and Before- and After- School Programs. Qualified students may also progress to administrative positions as directors of School Age Programs. (Title 22)

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 30</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>CD 40</td>
<td>Child/Family/Community</td>
<td>3</td>
</tr>
<tr>
<td>CD 45</td>
<td>School Age Programs</td>
<td>3</td>
</tr>
<tr>
<td>CD 32</td>
<td>Nutrition/Health/Safety</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three (3) units from the following courses:
CD 51 — Music in ECE ........................................... 3
CD 52 — Art in ECE .............................................. 3
CD 53 — Science and Math in ECE .......................... 3
CD 54 — Language Arts in ECE .............................. 3
total minimum units required — 14

Child Development Courses
Courses required by State of California for minimum 12 units for entry-level employment:
CD 30 Human Development 3
CD 40 Child / Family / Community 3
CD 41 Programs in ECE 3
Plus one of the following courses:
CD 51 Music in ECE 3
CD 52 Art in ECE 3
CD 53 Science & Math in ECE 3
CD 54 Language Arts in ECE 3

CD 22A/B — 1-3/1-3 Units
Independent Studies in Child Development
Prerequisite: A previous course in Child Development
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of child development on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

CD 30 — 3 Units
Human Development
Class Hours: 3 lecture
This course is a study of human development from the prenatal period to adolescence. Cognitive, socioemotional and psychosocial development is investigated. Research and theories are studied and applied to current issues and challenges regarding the development of human. Transfer credit: CSU; UC

CD 31 — 3 Units
Infant Studies
Class Hours: 3 lecture
This course covers infant/toddler care based on the developmental needs of the child. Planning, curriculum, designing an environment and observation of an existing program are included. Emphasis for helping parents with special needs children and understanding children from diverse cultural backgrounds will be addressed. Transfer credit: CSU

CD 32 — 2 Units
Child Nutrition, Health & Safety
Class Hours: 2 lecture
This course is given in health protection and resources provided by the home, school, and community. Emphasis is placed on prevention of infectious disease, preventative health practices, prevention policies, injury prevention, disaster preparedness, nutrition, child abuse identification and prevention, children with special needs, and care of the mildly ill child. This course complies with current legal statutes. The student will be required to take pediatric first aid and pediatric CPR in addition to this class. Transfer credit: CSU

CD 36 — 3 Units
Equity Issues in ECE
Class Hours: 3 lecture
This course is an introduction to equity issues in early childhood education. The course focuses on: family lifestyle, economics, gender, special needs assessment, and ethnicity. Transfer credit: CSU

CD 38 — 3 Units
Practicum 1 - Observation (F/S)
Recommended Preparation: CD 30 (prior or current)
Corequisite: CD 38L
Class Hours: 2 lecture, 3 laboratory
This course is an introduction to child observation techniques based on the study of the theories of Human Development. In the Child Development Center, students will use specific observation tools to observe children's development, activities, classroom materials and environment. Extended experiences are gained in community observation at other early childhood programs. Transfer credit: CSU

CD 39A — 3 Units
Practicum 2 - Participation (F/S)
Recommended Preparation: CD 30
Class Hours: 2 lecture, 3 laboratory
This course provides procedures and practices for students who will be teaching young children and for family day-care providers or those employed in preschools, center-based childcare or Head Start Centers. Students will gain practical experience in the application of theories of human development while teaching children in the Child Development Center. Transfer credit: CSU

CD 39B — 3 Units
Practicum 3 - Field Experience (S)
Prerequisites: CD 30, CD 38, CD 39A
Class Hours: 2 lecture, 3 laboratory
This course is based on the student's knowledge of human development with special emphasis on the cognitive theories of Piaget, observation techniques and assessment tools, and the guided laboratory student teaching experience. The student will participate three hours each week as a student teacher in a community based early childhood program. This experience is essential to the content of the course and allows the student to further apply theoretical knowledge to practical teaching situations. Proof of negative TB clearance is required. Transfer credit: CSU

CD 40 — 3 Units
Child / Family / Community
Class Hours: 3 lecture
This course facilitates awareness of the interaction and interdependency of home, school, and community. The course content includes: methods of advocacy, community resource and application of theory to contemporary social issues. Transfer credit: CSU

CD 41 — 3 Units
Programs in ECE
Recommended prep: CD30
Class Hours: 3 lecture
This course is an overview of the history and philosophies of early childhood education. Course content includes: an introduction to developmentally appropriate practices, career paths, role of the teacher, learning theories, classroom discipline, creating environment, curriculum development and lesson plans. Transfer credit: CSU

CD 42 — 3 Units
Administration in ECE
Prerequisites: CD 30, CD 40, CD 41; and one curriculum course (CD 51, 52, 53, or 54)
Recommended Preparation: Three years preschool teaching experience
Class Hours: 3 lecture
This course covers the scope of the role of the director of an Early Childhood Program. The course includes: administrative structures, managerial styles and leadership, budget, personnel issues, types of schools, licensing requirements, legislative standards and development of both personnel and school philosophies. This course meets the requirements defined by the California Department of Social Services and Title 22 for administering Early Childhood programs. Transfer credit: CSU

CD 43 — 3 Units
Adult Communications
Class Hours: 3 lecture
This course is an introduction to effective communication between parents, teachers and caregivers. The course includes the impact of significant adults in the lives of children, the historical perspective of parent involvement, teacher facilitation of effective communication with parents and competency in specific communication skills. Parent-teacher conferencing techniques and procedures and developing a positive working relationship are emphasized. Transfer credit: CSU

CD 44 — 2 Units
Parent Education (F)
Class Hours: 2 lecture
This course offers parents and Child Development students skills and resources that promote more effective parent and child interactions. It includes study of children's developmental stages, guidance principles and techniques that promote healthy self esteem, and application of developmental theories. Emphasis is placed on culture, race, ethnicity, family structures, economics, class, gender and special needs equity issues. May be taken two times for credit.
CD 45 -- 3 Units
School Age Programs
Class Hours: 3 lecture
This course introduces the student to the care of school age children. Designed to provide background and experience in the areas of before-and-after school programs and recreation, this course includes the information pertaining to family and school coordination and community resources. Developmentally appropriate curriculum is emphasized. Transfer credit: CSU.

CD 51 -- 3 Units
Childhood Music in ECE
Class Hours: 3 lecture
This course will present creative movement, dance rhythm and song as essential components of physical social, emotional, creative and cognitive development of young children. The course will focus on the critical analysis of developmentally appropriate musical activities and the appreciation of individual and cultural diversity. Students will be encouraged to explore and evaluate children's music and develop applications for integrating music throughout the curriculum. Transfer credit: CSU

CD 52 -- 3 Units
Art in ECE
Class Hours: 3 lecture
This course provides students with the opportunity to study a developmentally appropriate art curriculum for children. A review of current research will be used to explore the importance of art as an essential component of physical, social, emotional, creative and cognitive growth. Students investigate, present and evaluate children's art activities. Focus is on integration of art activities, media and resources throughout the curriculum. Transfer credit: CSU

CD 63 -- 3 Units
Science & Math in ECE
Class Hours: 3 lecture
This course investigates science and math curriculum that is theoretically sound and developmentally appropriate for children. Emphasis is placed on the teacher's role as a facilitator of the inquiry approach to experiencing science and math and on the development and evaluation of curricular materials. Transfer credit: CSU

CD 54 -- 3 Units
Language Arts in ECE
Class Hours: 3 lecture
This course explores current research in children's literature and language arts and demonstrates theoretical classroom applications. Emphasis is placed on evaluation of developmentally appropriate materials, experiences that support language as a means of communication and as a medium of creative expression, and as a tool in the development of logical thought. Transfer credit: CSU

CD 60A-Z -- 1.5 Units
Topics in Child Development (F/S)
Prerequisites: To be determined with each Topic
Class Hours: 3 lecture
this is a special series of courses each of which deals with a specific topic in Child Development not covered in detail in the general Child Development course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU, see counselor.

Topics which have been developed include:

60A -- 1.5 Units
Programs for Toddlers (F/S)
Class Hours: 24 lecture total
This course is designed to include an environment for college students where they have access to toddlers and their parents, gain an in-depth understanding of developmental growth patterns of 2 and 3 year olds and become familiar with the philosophy programs and materials appropriate to an educational experience for this age group. May be taken four (4) times for credit.

60B -- 1 Unit
Early Childhood Classroom Management
Class Hours: 16 lecture total
This short-term lecture-workshop course is designed primarily for preschool and day-care personnel in teaching and administrative roles. The course will provide opportunity to develop a knowledge base in management techniques that integrate sound developmental theory with practical application in early childhood settings.

60C -- 1 Unit
Developing Cognitive Group Times in Early Childhood
Class Hours: 16 lecture total
This short-term lecture-workshop course is designed primarily for preschool and day-care personnel in teaching and administrative roles. The course will provide the student with opportunity to create a developmental sequence for the various cognitive areas introduced at Group Times to children in early childhood programs.

60D -- 1 Unit
Exploring: The Process Approach to Teaching Young Children
Class Hours: 16 lecture total
This short-term class is designed primarily for preschool and day-care personnel in teaching and administrative roles. The course will provide the student with opportunities to develop integrated curriculum which is developmentally appropriate and process oriented.

60E -- 1.5 Units
Language Development in Young Children (F)
Recommended Preparation: CD 30
Class Hours: 24 lecture total
This is the exploration of language development from birth to school age. This course helps prospective teachers and parents of young children plan activities and materials to promote language growth.

60F -- 1 Unit
Investigating: The Process Approach to Teaching Young Children
Class Hours: 16 lecture total
This short-term class will continue to explore the Process Approach to Teaching, which emphasizes process over product when working with young children. The EXPLORING class (CD 60D) is not a prerequisite course but can serve as setting and background for this INVESTIGATING class where additional topics will be presented.

60G -- 1 Unit
Anti-bias Curriculum in Early Childhood Education
Class Hours: 16 lecture total
This course presents an educational philosophy as well as specific techniques and content. Teachers and administrators are taught to confront the issues of racial differences and similarities, cultural differences and similarities, gender identity, and disabilities.

60H -- 1 Unit
Parenting Young Children
Class Hours: 16 lecture total
This course is designed to assist parents to understand children's needs and behavior. With the guidance of a competent instructor, parents interact with the materials and each other to learn sound parenting principles geared especially to the challenge of parenting babies, toddlers, and preschoolers. May be taken four (4) times for credit.

CD 89A-Z -- 5-3 Units
Institutes in Child Development
Class Hours: Variable
This short-term lecture-workshop series is designed primarily for preschool and day-care personnel in teaching and administrative roles. This series will provide opportunity to gain understanding and skills in the areas of communication with children, parents, staff, and community agencies.
Computer Information Systems

This program is designed for students interested in learning some basic skills of computer information systems with the goal of immediate employment in business or industry, utilizing computer information system techniques and equipment. Two tracks are provided: (1) traditional Information Systems, with emphasis on use of large-scale computers, and (2) Microcomputer Systems, with emphasis on in-the-office use of computer equipment.

Career Opportunities

A.S. Level in Business Data Processing
Computer Programming Coordinator
Information Center Manager
Information Systems Manager
Data Processing Sales Representative
Technical Information Specialist
Technical Services Manager

A.S. Level in Microcomputer Data Processing
Office Manager
Word Processor
Office Clerk
Administrative Aide

Junior Programmer
Computer Operator
Programmer Trainee
Tape Librarian
Systems Analyst
Applications Specialist

Data Entry Clerk
Receptionist
Data Entry Operator

Faculty

Full-Time
David Kay
Louis Wolff

Part-Time
Cheryl Barrett
Guy Campbell
George Kurata
James Shea

Counselor
Lisa Raufman

Computer Information Systems

Occupational
Associate in Science Degree
Certificate of Achievement

Either of these options may be used to obtain a Certificate of Achievement or, with suitable General Education courses, an Associate in Science Degree.

Students learn basic skills of computer information systems with the goal of immediate employment in business or industry utilizing computer information systems techniques and equipment.

Information Systems Option

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 2A</td>
<td>3</td>
</tr>
<tr>
<td>Bus 2B</td>
<td>3</td>
</tr>
<tr>
<td>Bus 30</td>
<td>3</td>
</tr>
<tr>
<td>CIS 1</td>
<td>3</td>
</tr>
<tr>
<td>CIS 1L</td>
<td>3</td>
</tr>
<tr>
<td>CIS 3A</td>
<td>3</td>
</tr>
<tr>
<td>CIS 3A1</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4A</td>
<td>3</td>
</tr>
<tr>
<td>CIS 4A1</td>
<td>1</td>
</tr>
<tr>
<td>CIS 4B</td>
<td>1</td>
</tr>
<tr>
<td>CIS 4BL</td>
<td>1</td>
</tr>
<tr>
<td>CIS 6</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>28</td>
</tr>
</tbody>
</table>

Revised minimum units required in major area - 30-31

Recommended Courses: CIS 5A, 5B, CS 18/18L, Econ 1, 2

Microcomputer Systems Option

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 10A</td>
<td>1</td>
</tr>
<tr>
<td>BIS 10B</td>
<td>2</td>
</tr>
<tr>
<td>BIS 13A</td>
<td>1</td>
</tr>
<tr>
<td>BIS 13B</td>
<td>1</td>
</tr>
<tr>
<td>BIS 14A</td>
<td>1</td>
</tr>
</tbody>
</table>

BIS 14B......Programming DBASE IV...........2
Bus 2A......Financial Accounting Principles I.......3
Bus 30......Intro to Business and Economics.......3
CIS 1......Intro to Information Systems..........3
CIS 1L......CIS Introduction Lab..............1
CIS 3A......Windows Programming: Visual BASIC I....3
CIS 3A1.....CIS Visual BASIC I Lab...........1
CIS 3B......Windows Programming: Visual BASIC II....3
CIS 3BL.....CIS Visual BASIC II Lab...........1

Required Additional Courses:

Select one (1) of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 2B</td>
<td>3</td>
</tr>
<tr>
<td>Bus 8</td>
<td>2</td>
</tr>
</tbody>
</table>

Select one (1) pair from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 15A</td>
<td>1</td>
</tr>
<tr>
<td>BIS 15B</td>
<td>1</td>
</tr>
<tr>
<td>BIS 20A</td>
<td>1</td>
</tr>
<tr>
<td>BIS 21A</td>
<td>1</td>
</tr>
<tr>
<td>BIS 21B</td>
<td>1</td>
</tr>
</tbody>
</table>

Total minimum units required in major area - 30-31

Recommended Courses: Bus 2B, CIS 4A, 5A, Econ 1, 2

Computer Information Systems Courses

The UC system allows credit for the first 6 courses taken in either Computer Information Systems or Computer Science or a combination thereof.

CIS 1 -- 3 Units
Introduction to Information Systems
Corequisite: CIS 1L
Recommended Preparation: BIS 1 or equivalent
Class Hours: 3 lecture

This introductory course covers the history, development, and application of information processing systems, with emphasis on the microcomputer. This course includes an overview of applications of computer languages in solving business problems. It includes hands-on experience in solving problems, design of program logic, and the writing and execution of programs in the language QBASIC. The course provides hands-on experience with the major microcomputer applications: word processing, spreadsheets, and computerized databases. Course design meets the requirements of the DPMA Model Curriculum. Transfer credit: CSU

CIS 1L -- 1 Unit
CIS Introduction Lab★
Corequisite: CIS 1
Class Hours: 3 laboratory
This course provides hands-on laboratory experience to accompany CIS 1. Problems in BASIC and microcomputer applications will be run on IBM PC or equivalent. Transfer credit: CSU

CIS 3A -- 3 Units
Windows Programming: Visual BASIC I (Fall, evening only)
Prerequisite: CIS 1 or equivalent
Corequisite: CIS 3AL
Class Hours: 3 lecture
This is an introductory course in programming in a Windows environment using Microsoft Visual BASIC. It will include an overview of Windows and Visual BASIC and provide an introduction to Event Oriented programming; included are such topics as forms, events, properties, controls and event procedures, menus and dialog boxes, files and graphics, the user interface, managing projects, flow control, sorting, and advanced data handling. It will provide some basic understanding of and experience in the development and use of error handling and debugging procedures. Transfer credit: CSU, UC

See Degree Requirements and Transfer Information section for General Education requirements.
CIS 3AL -- 1 Unit
CIS Visual BASIC I Lab★ (Fall, evening only)
Corequisite: CIS 3A
Class Hours: 3 laboratory
This course provides hands-on lab experience for those students who are enrolled in an introductory Visual BASIC programming course. Transfer credit: CSU; UC credit limitations.

CIS 3B -- 3 Units
Windows Programming: Visual BASIC II (Fall, evening only)
Prerequisites: CIS 3A/3AL
Corequisite: CIS 3BL
Class Hours: 3 lecture
This is the second in a two-course sequence of instruction in programming in a Windows environment using Microsoft Visual BASIC. This course will build on the understanding of syntax and procedures learned in the first course, requiring the student to develop more complex and advanced programs. This course concentrates on the interaction of programs, the use of more advanced graphics and sound, and the handling of more complex data files and arrays. It will provide experience programming to implement a real-world business application. Transfer credit: CSU; UC credit limitations.

CIS 3BL -- 1 Unit
CIS Visual BASIC II Lab★ (Fall, evening only)
Corequisite: CIS 3B
Class Hours: 3 laboratory
This course provides hands-on lab experience for those students who are enrolled in a second semester-long Visual BASIC programming course. Transfer credit: CSU; UC credit limitations.

CIS 4A -- 3 Units
Computer Programming I: COBOL (Spring, evening only)
Prerequisite: CIS 1 or equivalent
Corequisite: CIS 4AL
Recommended Preparation: For CIS majors, concurrent enrollment in or prior completion of CIS 2
Class Hours: 3 lecture
Students become familiar with basic computer programming concepts used in the solving of business computer information systems problems. Completion of assigned class problems provides experience in actual programming using COBOL language. Transfer credit: CSU; UC credit limitations. CAN: OSCI 8

CIS 4AL -- 1 Unit
CIS COBOL I Lab★ (Spring, evening only)
Corequisite: CIS 4A
Class Hours: 3 laboratory
This course provides hands-on laboratory experience to accompany CIS 4A. Problems in COBOL will be run in the Lab on suitable microcomputer hardware. Transfer credit: CSU; UC credit limitations.

CIS 4B -- 3 Units
Computer Programming II: COBOL (Spring, evening only)
Prerequisites: CIS 4A/4AL or equivalent
Corequisite: CIS 4BL
Class Hours: 3 lecture
A study of advanced COBOL programming techniques, with particular emphasis on disk file concepts, for solving business computer information systems problems such as payroll, accounts payable, inventory, etc. Transfer credit: CSU; UC credit limitations.

CIS 4BL -- 1 Unit
CIS COBOL II Lab★ (Spring, evening only)
Corequisite: CIS 4B
Class Hours: 3 laboratory
This course provides supervised hands-on laboratory experience with a set of interrelated COBOL programs that utilize the more advanced capabilities of the language in a realistic business-like process. Course includes all aspects of design, development and documentation. Transfer credit: CSU; UC credit limitations.

CIS 5A -- 3 Units
Local Area Networks (LAN)
Prerequisite: CIS 1 or equivalent
Class Hours: 2.5 lecture, 1.5 laboratory
This course covers terminology, technology, topologies and software used in local area networks. Different topologies, hardware, and software are compared and evaluated for a variety of applications as to cost and performance. This course is designed for computer users and managers of computer facilities who intend to install and work with LANs. System administrators will learn to support users, save user accounts, implement levels of security, apply diagnostics, and back up and maintain the software. Novell NetWare will be utilized as the focus of this course.

CIS 5B -- 3 Units
Advanced Microcomputer LAN Features
Prerequisite: CIS 5A
Corequisite: CIS 5BL
Class Hours: 3 lecture
This course provides advanced study of local area networks. The course focuses on installing the network, troubleshooting the system, installing applications, and attaching peripherals. Students learn to customize a local area network to achieve an organization's specific goals. Topics include, the course focuses on features such as system commands and performance, problem handling, program-fix installation and application, backup and recovery, objects and queues. Students will work with system security and problem determination procedures. As with CIS 5A, the focus will be on Novell NetWare.

CIS 5BL -- 1 Unit
Advanced Microcomputer LAN Features Lab★
Corequisite: CIS 5B
Class Hours: 3 laboratory
This course provides hands-on lab experience for those involved in an advanced study of local area networks. The course provides for installing network components, troubleshooting the system, installing applications, and attaching peripherals. Students gain experience in learning to customize a local area network to achieve an organization's specific goals, in using features such as system commands and performance, problem handling, program-fix installation and application, backup and recovery, objects and queues, and working with system security and problem determination procedures.

CIS 6 -- 3 Units
Systems Analysis (By Arrangement Only)
Prerequisites: CIS 1 and a programming class or equivalent
Class Hours: 3 lecture
Study includes computer information systems systems and procedures, analysis of various existing business computer information systems principles. Course is required of most business and economics departments for non-data and data systems concepts. Transfer credit: CSU

CIS 9 -- 1 Unit
Computer Programming Laboratory★
Corequisite: CIS 22A/B with subject that requires extensive lab work/computer usage
Class Hours: 3 laboratory
This course allows for laboratory experience credit, when deemed appropriate by the instructor, for an Independent Study contract. May be taken two (2) times for credit. Transfer credit: CSU; UC credit limitations.

CIS 22A/B -- 1-3/1-3 Units
Independent Studies in Information Systems
Prerequisite: A previous course in Computer Information Systems
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of computer information systems on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

CIS 80A-Z -- 1-3 Units
Topics in Computers
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Computer Information Systems not covered in detail in the general Computer Information Systems course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC credit limitations.
This program prepares students for further study in Computer Science and can lead to careers in such fields as technical applications programming, design of computer operating systems and related software, systems analysis and design, etc.

**Career Opportunities**

B.S. Level
(Requires bachelor's or graduate studies)

- Computer Programmer
- Applications Engineer, Computer
- Microprocessing Technology
- Naval Research Logistics
- Process Control Programmer
- Operational Research Manager
- Computer Service Technician
- Computer Lab Technician

**Faculty**

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheila Tan</td>
<td>Thomas Becker</td>
</tr>
<tr>
<td></td>
<td>Donald Cook</td>
</tr>
<tr>
<td></td>
<td>Larry Luce</td>
</tr>
<tr>
<td></td>
<td>Takyu Liu</td>
</tr>
<tr>
<td></td>
<td>Christine Salazar</td>
</tr>
<tr>
<td>Counselors</td>
<td>Edna Ingram</td>
</tr>
<tr>
<td></td>
<td>Leticia Mai</td>
</tr>
<tr>
<td></td>
<td>Danita Redd Terry</td>
</tr>
</tbody>
</table>

**Computer Science**

**Associate in Science Degree**

Moorepark College offers an Associate in Science Degree in Computer Science. The Computer Science major has a dual purpose: to prepare students for upper-division coursework in Computer Science and to provide technical training for a variety of careers in business, industry, and government.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 10A/10AL</td>
<td>Introduction to Programming-C/Lab</td>
<td>4</td>
</tr>
<tr>
<td>CS 20/20L</td>
<td>Data Structures and Program Design/Lab</td>
<td>4</td>
</tr>
<tr>
<td>CS 30/30L</td>
<td>Assembly Language/Lab</td>
<td>4</td>
</tr>
<tr>
<td>CS 40</td>
<td>Computer Architecture</td>
<td>6</td>
</tr>
<tr>
<td>Math 25A</td>
<td>Calculus with Analytic Geometry I</td>
<td>6</td>
</tr>
<tr>
<td>Math 25B</td>
<td>Calculus with Analytic Geometry II</td>
<td>6</td>
</tr>
<tr>
<td>Math 31</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Required Additional Courses:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two (2) of the following courses:</td>
<td></td>
</tr>
<tr>
<td>CS 10B/10BL</td>
<td>Object-Oriented Programming Using C+/+Lab</td>
<td>4</td>
</tr>
<tr>
<td>CS 1C/1C</td>
<td>Windows Programming Using C+/+Lab</td>
<td>4</td>
</tr>
<tr>
<td>CS 19/19L</td>
<td>Software Engineering with Ada/Lab</td>
<td>4</td>
</tr>
<tr>
<td>CS 50</td>
<td>Files and Databases</td>
<td>3</td>
</tr>
<tr>
<td>CS 60/60L</td>
<td>Concepts of Programming Languages/Lab</td>
<td>4</td>
</tr>
<tr>
<td>Math 24C</td>
<td>Calculus with Analytic Geometry III</td>
<td>6</td>
</tr>
<tr>
<td>Math 35</td>
<td>Applied Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Phil 9</td>
<td>Symbolic Logic</td>
<td>4</td>
</tr>
</tbody>
</table>

Total minimum units required in major area = 38-41

**Suggested Course Sequence:**

**First Semester**

- CS 10A/10AL                      4
- CS 20/20L                        4
- Math 25A                         5
- Math 25B                         5

**Second Semester**

- CS 10B/10BL                      4
- CS 30/30L                        4
- Math 25B                         5

**Third Semester**

- CS 40                             3
- Math 31                           3

**Fourth Semester**

- CS 10B/10BL                      4
- Math 31                           3

The Suggested Course Sequence shown above does not include the two Required Additional Courses that students select for the Associate in Science Degree. See Degree Requirements and Transfer Information section for General Education requirements.

**Computer Science Courses**

The UC system allows credit for the first 6 courses taken in either Computer Science or Computer Information Systems or a combination thereof.

**CS 1 -- 3 Units**

**Fundamentals of Computers and Programming/C**

Corequisite: Concurrent enrollment in CS 1L required

Recommended Preparation: Math 1

Class Hours: 3 lecture

This course is an introduction to computers and computer science, problem-solving techniques, design of algorithms, and an introduction to structured programming in C. Transfer credit: CSU; UC credit limitations.

**CS 1L -- 1 Unit**

**Fundamentals of Computers and Programming/C Laboratory**

Corequisite: Concurrent enrollment in CS 1 required

Class Hours: 3 laboratory

This course provides laboratory experience to accompany CS 1. Transfer credit: CSU; UC credit limitations.

**CS 2 -- 3 Units**

**Introduction to UNIX and C**

Corequisite: Concurrent enrollment in CS 2L required

Recommended Preparation: Familiarity with computer architecture and at least one high-level programming language

Class Hours: 3 lecture

This course is an introduction to the UNIX operating system and the C programming language. Topics include basic introduction to the UNIX environment such as vi editor, C shell, shell scripts, and other UNIX utility programs. The basic programming concepts and program design in C are introduced. Transfer credit: CSU; UC credit limitations.

**CS 2L -- 1 Unit**

**Introduction to UNIX and C Laboratory**

Corequisite: Concurrent enrollment in CS 2 required

Class Hours: 3 laboratory

This course provides laboratory experience to accompany CS 2. Transfer credit: CSU; UC credit limitations.

**CS 3 -- 3 Units**

**Introduction to Computer Hardware and Systems Software**

Recommended Preparation: CS 1

Class Hours: 3 lecture

This is an introduction to computer hardware and systems software concepts from the user's viewpoint. Topics include computer organization, data representation, operating systems, systems software design and use for the microcomputer. This is a course for non-computer science majors. Transfer credit: CSU

**CS 10A -- 3 Units**

**Introduction to Programming with C**

Prerequisite: Math 6 or Math 7 or equivalent college course

Corequisite: Concurrent enrollment in CS 10AL required

Class Hours: 3 lecture

This course is an introduction to computer programming and the organization of computer programs. Basic programming concepts are studied including algorithms, data and control structures, debugging, programs design, documentation, and structured programming. This course will use C to demonstrate the application of software engineering methodologies. Transfer credit: CSU; UC credit limitations.
CS 10AL -- 1 Unit
Introduction to Programming with C Laboratory*  
Corequisite: Concurrent enrollment in CS 10A required  
Class Hours: 3 laboratory  
This course provides laboratory experience to accompany CS 10.  
Transfer credit: CSU; UC credit limitations.

CS 10B -- 3 Units
Object-Oriented Programming Using C++  
Prerequisites: CS 10A/10AL or equivalent college course or proficiency in C  
Corequisite: Concurrent enrollment in CS 10BL required  
Class Hours: 3 lecture  
This course provides in-depth understanding of fundamentals of object-oriented programming methodology, such as message-passing, data-hiding, encapsulation, class and inheritance using C++.  
Transfer credit: CSU; UC credit limitations.

CS 10BL -- 1 Unit
Object-Oriented Programming Laboratory Using C++  
Corequisite: Concurrent enrollment in CS 10B required  
Class Hours: 3 laboratory  
This course provides laboratory experience to accompany CS 10B.  
Transfer credit: CSU; UC credit limitations.

CS 10C -- 3 Units
Windows Programming Using C++  
Prerequisites: CS 10B/10BL or equivalent college course or proficiency in C++  
Corequisite: Concurrent enrollment in CS 10CL required  
Class Hours: 3 lecture  
The main components of a Windows application are studied, including the development environment, message box, user interface, graph device interface, and memory management.  
Transfer credit: CSU; UC credit limitations.

CS 10CL -- 1 Unit
Windows Programming Laboratory Using C++  
Corequisite: Concurrent enrollment in CS 10C required  
Class Hours: 3 laboratory  
This course provides laboratory experience to accompany CS 10C.  
Transfer credit: CSU; UC credit limitations.

CS 18 -- 3 Units
Computer Programming - FORTRAN  
Prerequisites: Math 5 and Math 6 or Math 7 or equivalent college course, or equivalent skills which may be measured by the college assessment process  
Corequisite: Concurrent enrollment in CS 18L required  
Class Hours: 3 lecture  
This course is an introduction to programming and the organization of computers using the FORTRAN language. Basic programming concepts are studied including: algorithms, data and control structures, and structured programming.  
Transfer credit: CSU; UC credit limitations.  
(CS 18 & 18L)

CS 18L -- 1 Unit
Computer Programming Laboratory - FORTRAN*  
Corequisite: Concurrent enrollment in CS 18 required  
Class Hours: 3 laboratory  
This course provides laboratory experience to accompany CS 18.  
Transfer credit: CSU; UC credit limitations.

CS 19 -- 3 Units
Software Engineering with Ada  
Corequisite: Concurrent enrollment in CS 19L required  
Recommended Preparation: Knowledge of at least one high-level language  
Class Hours: 3 lecture  
This is an introduction to concepts in software engineering using Ada. Topics include data abstraction and Ada's types, generics, exception handling, packages, and structured programming.  
Transfer credit: CSU; UC credit limitations.

CS 19L -- 1 Unit
Software Engineering Laboratory with Ada*  
Corequisite: Concurrent enrollment in CS 19 required  
Recommended Preparation: Knowledge of at least one high-level language  
Class Hours: 3 laboratory  
This course provides laboratory experience to accompany CS 19.  
Transfer credit: CSU; UC credit limitations.

CS 20 -- 3 Units
Data Structures and Program Design  
Prerequisites: CS 10/10L or equivalent college course or proficiency in Pascal  
Corequisite: Concurrent enrollment in CS 20L required  
Class Hours: 3 lecture  
Structured programming methods are applied to abstract data types such as stacks, queues, trees, and graphs. The concepts of pointer variables, linked lists, list processing, recursion, simulation, algorithm analysis and verification will be presented. More advanced algorithm designs such as greedy algorithms, dynamic programming will also be presented. The concept of object-oriented programming is introduced.  
Transfer credit: CSU; UC credit limitations.

CS 20L -- 1 Unit
Data Structures and Program Design Laboratory*  
Corequisite: Concurrent enrollment in CS 20 required  
Class Hours: 3 laboratory  
This course provides laboratory experience to accompany CS 20.  
Transfer credit: CSU; UC credit limitations.

CS 22A/B -- .5-.3/.5-.3 Units
Independent Studies in Computer Science  
Prerequisite: A previous course in Computer Science  
Class Hours: .5-3 tutorial  
This course is for students who are interested in furthering their knowledge of computer science on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or labora- tory work or field trips. May be taken for a maximum of 6 units.  
Transfer credit: CSU; UC credit limitations.

CS 30 -- 3 Units
Assembly Language  
Corequisite: Concurrent enrollment in CS 30L required  
Recommended Preparation: Knowledge of at least one high-level language and CS 20/20L  
Class Hours: 3 lecture  
This course covers basic computer organization, assembly language programming, input-output programming, and structured programming.  
Transfer credit: CSU; UC credit limitations.

CS 30L -- 1 Unit
Assembly Language Laboratory*  
Corequisite: Concurrent enrollment in CS 30 required  
Recommended Preparation: Knowledge of at least one high-level language and CS 20/20L  
Class Hours: 3 laboratory  
This course provides laboratory experience to accompany CS 30.  
Transfer credit: CSU; UC credit limitations.

CS 40 -- 3 Units
Computer Architecture  
Recommended Preparation: Knowledge of at least one high-level language and CS 30/30L  
Class Hours: 3 lecture  
This course is an introduction to the structure and organization of computer systems. Topics include: number systems, data representation, architectural organization, and computer programming.  
Transfer credit: CSU; UC credit limitations.

CS 50 -- 3 Units
Files and Data Bases  
Recommended Preparation: Knowledge of at least one high-level language and CS 30/30L  
Class Hours: 3 lecture  
This is an introduction to large files and database management. Topics include the following file structures: sequential, indexed sequential, direct, inverted, and tree, and ring. Multiple file data bases, objectives of data base organization, and data base structure are also studied.  
Transfer credit: CSU
CS 60 -- 3 Units
Concepts of Programming Languages
Corequisite: Concurrent enrollment in CS 60L required
Recommended Preparation: Knowledge of at least one high-level language and CS 20/20L
Class Hours: 3 lecture
Basic concepts of programming languages are studied. Topics include: syntax, BNF, scope of names, semantics, type checking, and storage management. Programming languages such as Pascal, Ada, FORTRAN, and Lisp are compared. Transfer credit: CSU; UC credit limitations.

CS 60L -- 1 Unit
Concepts of Programming Languages Laboratory
Corequisite: Concurrent enrollment in CS 60 required
Recommended Preparation: Knowledge of at least one high-level language and CS 20/20L
Class Hours: 3 laboratory
This course provides laboratory experience to accompany CS 60. Transfer credit: CSU; UC credit limitations.
Public concern with rising crime rates and the increasing role of law enforcement in public service work has contributed to the growth of criminal justice agencies throughout the nation. There is a broad range of employment opportunities for men and women in all components of the Criminal Justice System. Never before has there been such a demand for qualified persons in these occupational fields as now.

The Criminal Justice Program offers an education to students in the varied aspects of law enforcement, court procedures and corrections. A foundation of knowledge is provided for those interested in becoming competitive candidates for these rewarding and challenging positions.

### Career Opportunities

<table>
<thead>
<tr>
<th>Position</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal Police Officer</td>
<td>County Marshall</td>
</tr>
<tr>
<td>County Deputy Sheriff</td>
<td>County Sheriff</td>
</tr>
<tr>
<td>State Traffic Officer (CHP)</td>
<td>State Police Officer</td>
</tr>
<tr>
<td>University/College Police Officer</td>
<td>Border Patrol Agent</td>
</tr>
<tr>
<td>Park Ranger (State/County)</td>
<td>Custodial Officer</td>
</tr>
<tr>
<td>Group Supervisor/Counselor</td>
<td>Private Investigation</td>
</tr>
<tr>
<td>Private Security/Loss Prevention</td>
<td></td>
</tr>
</tbody>
</table>

### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselors</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Harrington</td>
<td>Philip Anderson</td>
<td>Rick Cardoni</td>
<td></td>
</tr>
<tr>
<td>Mitchell Smith</td>
<td>James Murphy</td>
<td>Mike Johnson</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Michael Sayre</td>
<td>Mary Martin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Michael Webb</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Criminal Justice

#### Occupational

**Associate in Science Degree**

This program offers training of students in the varied aspects of the Criminal Justice System including law enforcement, courts and corrections. Background is provided for those interested in being recruited by criminal justice agencies as well as upgrading the skills of those already employed in this field.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 1</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 2</td>
<td>Concepts of Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CJ 3</td>
<td>Community Relations</td>
<td>3</td>
</tr>
<tr>
<td>CJ 4</td>
<td>Legal Aspects of Evidence</td>
<td>3</td>
</tr>
<tr>
<td>CJ 5</td>
<td>Principles/Procedures of the Justice System</td>
<td>3</td>
</tr>
<tr>
<td>CJ 6</td>
<td>Criminal Justice Report Writing</td>
<td>3</td>
</tr>
<tr>
<td>CJ 41</td>
<td>Intro to Probation, Parole and Corrections</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Additional Courses:**

- Select six (6) units from the following courses:
  - CJ 10 ...Patrol Procedures ...3
  - CJ 11 ...Criminal Investigation ...3
  - CJ 14 ...Juvenile Procedure ...3
  - CJ 18 ...Narcotics Investigation ...3
  - CJ 19 ...Victim Control ...3

  Total minimum units required in major area -- 27

**Recommended Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pol Sc 3</td>
<td>Psychology 1A; Soc 1</td>
</tr>
</tbody>
</table>

**Suggested Course Sequence:**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>CJ 1</td>
<td>Third Semester</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CJ 2</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Second</td>
<td>CJ 3</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CJ 5</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>CJ 6</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

*See Degree Requirements and Transfer Information section for General Education requirements.*

### Criminal Justice Courses

**CJ 1 -- 3 Units**

**Introduction to Criminal Justice**

- **Class Hours:** 3 lecture
- Basic topics covered in this class include: the history and philosophy of criminal justice in America; recapitulation of the system; identifying of the various sub-systems; role expectations, and their interrelationships; theories of crime, punishment, rehabilitation; ethics, education and training for professionalism in the system. **Transfer credit:** CSU; UC; CAN; AJ 2

**CJ 2 -- 3 Units**

**Concepts of Criminal Law**

- **Class Hours:** 3 lecture
- This class deals with the following major topics: historical development and philosophy of law, including constitutional provisions, definitions, classification of crime, and their application to the Criminal Justice System; legal research, study of case law, methodology and concepts of law as a social force. **Transfer credit:** CSU; UC; CAN; AJ 4

**CJ 3 -- 3 Units**

**Community Relations**

- **Class Hours:** 3 lecture
- Students in this course make an in-depth exploration of criminal justice practitioners and their agencies. Through interaction and study the student will become aware of the interrelationship and role expectations among the various agencies and the public. **Transfer credit:** CSU; UC

**CJ 4 -- 3 Units**

**Legal Aspects of Evidence**

- **Prerequisites:** CJ 1 and CJ 2
- **Class Hours:** 3 lecture
- The student becomes acquainted with the origin, development philosophy and constitutional basis of evidence in this class. Other topics to be covered include constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies. **Transfer credit:** CSU; UC

**CJ 5 -- 3 Units**

**Principles and Procedures of the Justice System**

- **Class Hours:** 3 lecture
- The course provides an in-depth study of the role and responsibilities of each segment within the Criminal Justice System: law enforcement, judicial, and corrections. The student also learns about each sub-system procedure, from initial entry to final disposition, as well as the relationship each segment maintains with its system members. **Transfer credit:** CSU

**CJ 6 -- 3 Units**

**Criminal Justice Report Writing**

- **Prerequisite:** Engl 2 or eligibility for Engl 1A
- **Class Hours:** 3 lecture
- This course, designed for criminal justice practitioners, emphasizes the mastery of report writing skills to record crime scenes, emergency response situations, and routine occurrences. Its goal is to help students translate observation into accurate, clear, concise, complete and acceptable standard written English so that documents are appropriate for court presentation. **Transfer credit:** CSU
CJ 10 -- 3 Units
Patrol Procedures (S)
Class Hours: 3 lecture
Responsibilities, techniques, and methods of police patrol are emphasized in this class. The student learns about the handling of complaints, mechanics of arrest, preliminary investigations, field note taking, and report writing. Transfer credit: CSU

CJ 11 -- 3 Units
Criminal Investigation (F)
Prerequisites: CJ 1 and CJ 2
Class Hours: 3 lecture
Instruction covers the fundamentals of investigation including crime scene search and recording; collection and preservation of physical evidence; scientific aids, modus operandi; source of information; interviews and interrogation; follow-up and case preparation. Transfer credit: CSU. CAN: AJ 8

CJ 14 -- 3 Units
Juvenile Procedure (S)
Class Hours: 3 lecture
The course focuses upon the organization, functions, and jurisdiction of juvenile agencies. Other topics include the processing and detention of juveniles; juvenile case disposition; juvenile statutes and court procedures. Transfer credit: CSU

CJ 18 -- 3 Units
Narcotics Investigation (S)
Class Hours: 3 lecture
Students will learn to identify marijuana, opiates, dangerous drugs, hallucinogens, and their paraphernalia. Principles of identifying and dealing with the "user" are also delineated. Other topics include: laws and court decisions relating to the offender, fundamentals of arrest, search, report writing, and court testimony. The prevention and control of drug abuse as it relates to society. Transfer credit: CSU

CJ 19 -- 3 Units
Vice Control (F)
Class Hours: 3 lecture
This course covers the detection, repression and control of vice. Topics include gambling, prostitution, liquor, sex offender violations, vice law, and court procedures. The course is intended to provide knowledge and skill in the recognition, investigation, and control of vice offenders. Transfer credit: CSU

CJ 22A/B -- 1-3/1-3 Units
Independent Studies in Criminal Justice
Prerequisite: A previous course in Criminal Justice
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of criminal justice on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

CJ 41 -- 3 Units
Introduction to Probation, Parole and Corrections
Class Hours: 3 lecture
An introduction to the legal and practical aspects, practices, and procedures of probation, this course includes an analysis of both, with emphasis on rehabilitation and classification methods in criminology. Transfer credit: CSU

CJ 60A-Z -- 1-3 Units
Topics in Criminal Justice
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Criminal Justice not covered in detail in the general Criminal Justice course offerings. Topic courses are announced on a semester basis in the schedule of classes.

CJ 89A-Z -- .5-3 Units
Institutes in Law Enforcement*
Prerequisites: CJ 1, 2, 3, 4 and 5 (Core) or possession of P.O.S.T. Basic Certificate
Class Hours: Variable
This short term lecture series concentrates on specialized law enforcement technology designed for criminal justice personnel.
People who study in the various specialties of dance (ballet, modern, jazz and tap) may decide on a professional career on stage, television or films. A large number become teachers, either in public school (K-12, community college or university), private school (pre-school, and K-12) and private colleges and universities. Some will teach in community recreation centers, private community studios or open their own studio. The dance program is designed for both the student who wishes to major in dance and the student seeking to experience dance technique classes. The grace, carriage and confidence one gains in dance as well as the physical agility and flexibility is beneficial to everyone in all aspects of life. Dance activity classes fulfill the Physical Education requirement for graduation.

**Career Opportunities**

<table>
<thead>
<tr>
<th>Role</th>
<th>Career</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actor/Actress</td>
<td>Dancer</td>
</tr>
<tr>
<td>Agent</td>
<td>Fitness Trainer</td>
</tr>
<tr>
<td>Arts and Studio Management</td>
<td>Lighting Designer</td>
</tr>
<tr>
<td>Arts Consultant</td>
<td>Masseuse</td>
</tr>
<tr>
<td>Chiropractor</td>
<td>Movement Consultant</td>
</tr>
<tr>
<td>Choreographer</td>
<td>Movement Therapist</td>
</tr>
<tr>
<td>Community Center Leader</td>
<td>Physical Therapist</td>
</tr>
<tr>
<td>Costumer</td>
<td>Recreation Specialist</td>
</tr>
<tr>
<td>Dance Critic/Writer</td>
<td>Sports Trainer</td>
</tr>
<tr>
<td>Dance Historian</td>
<td>Stage Manager</td>
</tr>
<tr>
<td>Dance Teacher</td>
<td></td>
</tr>
</tbody>
</table>

**Faculty**

<table>
<thead>
<tr>
<th>Role</th>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stella Matsuoka</td>
<td>Rene Baum</td>
<td>Avalon Garrett</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Donald Hewitt</td>
<td>Margaret Hyun</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sandra Patterson</td>
<td>Dennon Rawles</td>
<td></td>
</tr>
</tbody>
</table>

**Dance**

**Associate in Arts Degree**

The associate in arts degree program in dance provides training in four areas of technique: ballet, modern, jazz and tap. Integral parts of the curriculum are practical experience in concert performance and production work as well as a theoretical background in choreography and dance history and appreciation. Completion of the associate in arts degree prepares the student to begin upper division work leading to a B.A. or B.F.A. in dance, or for continued training leading to a professional career in the field of dance and dance-related professions. It prepares the student for certain occupations related to teaching in community centers and private dance studios and choreographing for community theatre productions. Transfer students should consult the four-year college or university catalog for specific requirements or see a Moorpark College counselor. Most universities require an audition for level placement in technique.

Required Courses:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dance 1A.....Dance Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>Dance 52.....Children's Dance Theatre</td>
<td>3</td>
</tr>
<tr>
<td>Dance 51 or 55 Dance Performance or Ensemble</td>
<td>1.5 - 3</td>
</tr>
<tr>
<td>Select 4.5-6 units from the following:</td>
<td></td>
</tr>
<tr>
<td>Dance 10A.....Ballet I</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 10B.....Ballet II</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 10C.....Ballet III</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 10D.....Ballet IV</td>
<td>2.0</td>
</tr>
<tr>
<td>Dance 40.....Ballet Variations</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Select 3-6 units from the following:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dance 11A.....Modern Jazz I</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 11B.....Modern Jazz II</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 11C.....Modern Jazz III</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 11D.....Modern Jazz IV</td>
<td>2.0</td>
</tr>
<tr>
<td>Dance 43.....Jazz Dance Roots</td>
<td>2.0</td>
</tr>
<tr>
<td>Select 4.5-6 units from the following:</td>
<td></td>
</tr>
<tr>
<td>Dance 12A.....Modern Dance I</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 12B.....Modern Dance II</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 12C.....Modern Dance III</td>
<td>2.0</td>
</tr>
<tr>
<td>Dance 12D.....Modern Dance IV</td>
<td>2.0</td>
</tr>
<tr>
<td>Dance 14A-D.....Choreography, Modern Dance</td>
<td>2.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dance 13A.....Tap I</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 13B.....Tap II</td>
<td>1.5</td>
</tr>
<tr>
<td>Plus 3-6 units from the following:</td>
<td></td>
</tr>
<tr>
<td>Dance 20.....Free Dance/Improvisation</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 30.....Ballroom Dance</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 31.....World Dance</td>
<td>1.5</td>
</tr>
<tr>
<td>Dance 60A-Z.....Topics in Dance (as offered)</td>
<td>1.5 - 3</td>
</tr>
<tr>
<td>Total minimum units required in major area — 28</td>
<td></td>
</tr>
</tbody>
</table>

Recommended Courses: An 1; RT 3A; THA 20

See Degree Requirements and Transfer Information section for General Education requirements.

**Dance Courses**

Students planning to take more than 4 units of Dance courses marked with * and/or more than 12 units of those marked with † should consult a counselor. The UC system accepts only that limited number of units in the respective cases. All Dance courses are accepted for equal semester credit by schools in the California State University system.

Any combination of Dance activity courses of a particular kind (e.g., ballet, modern dance, etc.) may be taken for a total of four (4) times.

**DANCE 1A — 3 Units**

**Dance Appreciation**

Class Hours: 3 lecture

This non-performance course examines dance through viewing dance performances and through lectures and discussions. Developments and factors which have influenced change in dance historically, culturally, and as an art form will be explored. Transfer credit: CSU; UC

**DANCE 10A — 1.5 Units**

**Ballet I-Fundamentals**

Class Hours: 1 lecture, 2 activity

This is an introduction to basic ballet technique and terminology, general principles of alignment, centering and posture as it relates to ballet. Class will include exercises at the barre to develop flexibility, strength, control, coordination and resilience and center practice of Port des Bras, simple adage and allegro movements. Transfer credit: CSU; UC†

**DANCE 10B — 1.5 Units**

**Ballet II-Beginning**

Prerequisite: Dance 10A

Class Hours: 1 lecture, 2 activity

This course continues to introduce new movements and terminology that are part of the basic ballet technique, both at the barre and in center. Basic movements will now be combined into adage and allegro patterns. Stress on increased technical skills is also included. Transfer credit: CSU; UC†
DANCE 10C -- 1.5 Units  
Ballet Ill-Intermediate  
Prerequisite: Dance 10B or equivalent  
Class Hours: 1 lecture, 2 activity  
This course covers the knowledge and development of intermediate technique both at the barre and in center. Class will include more concentration on the disciplines of ballet form and the physical abilities necessary to execute movements. Transfer credit: CSU; UC†

DANCE 10D -- 2 Units  
Ballet IV-Advanced  
Prerequisite: Dance 10C or equivalent  
Class Hours: 1 lecture, 3 activity  
This is a continuation of intermediate ballet. This course involves the analysis and application of kinesthetic principles as they apply to ballet to further develop one's skills, techniques, and physical capabilities. Transfer credit: CSU; UC†

DANCE 11A -- 1.5 Units  
Modern Jazz I-Fundamentals  
Class Hours: 1 lecture, 2 activity  
This course is an introduction of basic movement skills in modern jazz technique emphasizing an understanding and appreciation of jazz as an artistic dance form. Transfer credit: CSU; UC

DANCE 11B -- 1.5 Units  
Modern Jazz Il-Beginning  
Prerequisite: Dance 11A or equivalent  
Class Hours: 1 lecture, 2 activity  
This beginning course is a continued development of basic movement skills in modern jazz technique. Compositional forms and rhythm are practiced leading to an understanding and appreciation of jazz as an artistic dance form. Transfer credit: CSU; UC†

DANCE 11C -- 1.5 Units  
Modern Jazz III-Intermediate  
Prerequisite: Dance 11B or equivalent  
Class Hours: 1 lecture, 2 activity  
This is a continuation of Modern Jazz I and II with emphasis on style and form as well as increased technical and choreographic skills. Transfer credit: CSU; UC†

DANCE 11D -- 2 Units  
Modern Jazz IV-Advanced  
Prerequisite: Dance 11C  
Class Hours: 1 lecture, 3 activity  
This is a continuation of Modern Jazz III with an emphasis on performance style and form, and as well as increased technical and choreographic skills. Transfer credit: CSU; UC†

DANCE 12A -- 1.5 Units  
Modern Dance I-Fundamentals  
Class Hours: 1 lecture, 2 activity  
This course covers the fundamentals of modern dance techniques to develop flexibility, strength, control, coordination, endurance and form, basic principles, evaluation and application of dance composition, and the understanding of modern dance as an art form. Transfer credit: CSU; UC†

DANCE 12B -- 1.5 Units  
Modern Dance Il-Beginning  
Prerequisite: Dance 12A or equivalent  
Class Hours: 1 lecture, 2 activity  
This course continues to develop the basic skills in modern dance technique, simple improvisation and composition, the understanding of the principles of alignment and motion, and to experience movement. Transfer credit: CSU; UC†

DANCE 12C -- 2 Units  
Modern Dance III-Intermediate  
Prerequisite: Dance 12B or equivalent  
Class Hours: 1 lecture, 3 activity  
This is a continuing study of modern dance technique with emphasis upon increased flexibility, strength, and coordination. Study of the dance phrase combinations with integration of the elements of rhythm, design, dynamics and motivation. Understand and appreciate dance as a creative art form. Transfer credit: CSU; UC†

DANCE 12D -- 2 Units  
Modern Dance IV-Advanced  
Prerequisite: Dance 12C or equivalent  
Class Hours: 1 lecture, 3 activity  
This is a continuation of intermediate modern dance technique with emphasis on skills of performance, development in techniques of dance composition and choreography. Transfer credit: CSU; UC†

DANCE 13A -- 1.5 Units  
Tap I-Fundamentals  
Class Hours: 1 lecture, 2 activity  
This course will introduce basic tap dance techniques and elementary tap dances, various routines and rhythm structures. It provides an opportunity to develop motor coordination and rhythm. Some history of tap dance will be included. Transfer credit: CSU; UC†

DANCE 13B -- 1.5 Units  
Tap Il-Beginning  
Prerequisite: Dance 13A or equivalent  
Class Hours: 1 lecture, 2 activity  
This course will be a continuation of basic and elementary techniques of tap dancing, including music theory concepts as they apply to the syncopated rhythms of tap dance. It provides an opportunity to develop motor coordination and rhythm. Some history of tap dance will be included. Transfer credit: CSU; UC†

DANCE 14A -- 2 Units  
Choreography, Modern Dance-Fundamentals  
Prerequisite: Dance 12B  
Class Hours: 1 lecture, 3 activity  
This course explores the basic principles of dance composition as an art form and applies these guides through practical applications. It develops the concept of space, time and energy into creating dances. It integrates dance movement technique as a form of expression to communicate literal and non-literal themes. Solo and small group choreography will be emphasized as well as improvisations. Transfer credit: CSU; UC

DANCE 14B -- 2 Units  
Choreography, Modern Dance-Beginning  
Prerequisite: Intermediate modern dance or equivalent  
Class Hours: 1 lecture, 3 activity  
This course is designed to explore dance as a creative art form by integrating dance movement technique as a form of expression to communicate literal and non-literal themes. Solo and small group choreography will be emphasized as well as improvisations. Transfer credit: CSU; UC

DANCE 14C -- 2 Units  
Choreography, Modern Dance-Intermediate  
Prerequisite: Intermediate modern dance or equivalent  
Class Hours: 1 lecture, 3 activity  
This course is designed to explore dance as a creative art form combining movement with the use of music and sound. Emphasis will be to develop a substantial solo work that is ready to be performed in a concert setting. Transfer credit: CSU; UC

DANCE 14D -- 2 Units  
Choreography, Modern Dance-Advanced  
Prerequisite: Advanced dance class or equivalent  
Class Hours: 1 lecture, 3 activity  
This course uses all the elements of space, time and energy as they apply to developing dance as an art form. Working with literal and non-literal themes, the student choreographer will have an opportunity to set a group dance for a concert piece. Transfer credit: CSU; UC

DANCE 20A -- 1.5 Units  
Free Dance/Improvisation I  
Recommended Preparation: Concurrent enrollment in modern dance  
Class Hours: 1 lecture, 2 activity  
This course is designed to primarily stimulate one to discover the joy of movement and to enter into an environment that will encourage the individual to find unique and creative expressions in dance. Transfer credit: CSU; UC†
DANCE 20B -- 1.5 Units
Free Dance/Improvisation II
Prerequisite: Dance 20A or equivalent
Class Hours: 1 lecture, 2 activity
This course is designed to assist the individual to explore in a creative, free environment, various stimuli that will heighten the expressive act of dance movements to communicate to others and to enjoy for one's own pleasure or for performance. Transfer credit: CSU; UC†

DANCE 20C -- 1.5 Units
Free Dance/Improvisation III
Prerequisite: One beginning dance class or equivalent
Class Hours: 1 lecture, 2 activity
This course is an experience in creating appropriate movement responses to express ideas and feelings. The student will explore various stimuli situations with the ultimate aim at recreating and developing their initial spontaneous responses in the organic form of the dance.
Transfer credit: CSU; UC

DANCE 22A/B -- 1-3/1-3 Units
Independent Studies in Dance
Prerequisite: A previous course in Dance
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of dance on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units.
Transfer credit: CSU; UC pending

DANCE 30A -- 1.5 Units
Ballroom I
Class Hours: 1 lecture, 2 activity
This course is designed to introduce students to ballroom dancing through developing an understanding of its history, music and fundamental practices of performance. Basic steps, variations and styling techniques for the fox-trot, swing, waltz, cha-cha, tango, rumba, samba, mambo, polka and selected novelty dances will be included.
Transfer credit: CSU; UC*

DANCE 30B -- 1.5 Units
Ballroom II
Prerequisite: PE 30A
Class Hours: 1 lecture, 2 activity
This course is designed to further students' knowledge of and expertise in ballroom dancing. Students will review basic steps and increase their repertoire of variations and styling techniques for the fox-trot, swing, waltz, cha-cha, tango, rumba, samba, mambo, polka and selected novelty dances. Students will be expected to attend at least one out of class dance. Transfer credit: CSU; UC*

DANCE 31A -- 1.5 Units
World Dance, Ethnic Folk Forms I
Class Hours: 1 lecture, 2 activity
Students will study the development of Ethnic dance skills, understanding and appreciation including experiences in Folk, Square, and Round dancing.
Transfer credit: CSU; UC*

DANCE 31B -- 1.5 Units
World Dance, Ethnic Folk Forms II
Prerequisite: Dance 31A or equivalent
Class Hours: 1 lecture, 2 activity
This course is a continuation of study in Folk, Square, and Ethnic dance skills.
Transfer credit: CSU; UC*

DANCE 40 -- 2 Units
Ballet Variations
Prerequisite: Dance 10B or equivalent
Class Hours: 1 lecture, 3 activity
Ballet Variations continues development of technical skills with emphasis on developing artistic expression through exposure to classical and contemporary variations.
Transfer credit: CSU; UC pending

DANCE 43 -- 2 Units
Jazz Dance Roots
Prerequisite: Dance 11C
Class Hours: 1 lecture, 3 activity
This course will explore the development of jazz dance from its outgrowth of early Theater and Modern Dance, the influences of African/Tribal, Hindu/Indian, Cuban and South American Latin dances and their effect on the styles and trends of the day. The course will explore the development of Jazz Dance through the works of early dance pioneers, e.g., Martha Graham, Jack Cole and Kathryn Dunham, Broadway choreographers Bob Fosse, Agnes DeMille and Jerome Robbins, and international dance companies. Transfer credit: CSU; UC pending

DANCE 51A -- 1.5 Units
Dance Performance/Production I
Prerequisite: Beginning dance class
Recommended Preparation: Concurrent enrollment in dance
Class Hours: 1 lecture, 2 activity
This course will aid in understanding the basic elements of production (i.e., staging, lighting, publicity, make-up, costumes, set design and construction, etc.) and experience these by participation in a production (dance) event.
Transfer credit: CSU; UC†

DANCE 51B -- 1.5 Units
Dance Performance/Production II
Prerequisite: Dance 51A
Recommended Preparation: Concurrent enrollment in dance
Class Hours: 1 lecture, 2 activity
This course is a practical involvement in the elements of dance production "behind the scenes" as well as on stage.
Transfer credit: CSU; UC†

DANCE 51C -- 1.5 Units
Dance Performance/Production III
Prerequisite: Beginning dance class or equivalent
Recommended Preparation: Concurrent enrollment in another dance class
Class Hours: 1 lecture, 2 activity
This course emphasizes practical experience in the many phases of dance productions, concerts and demonstrations, with particular emphasis on dance as a performing art. This is also concerned with choreography, staging and the production elements of dance.
Transfer credit: CSU; UC†

DANCE 51D -- 2 Units
Dance Performance/Production IV
Prerequisite: Intermediate dance class
Recommended Preparation: Concurrent enrollment in dance class
Class Hours: 1 lecture, 3 activity
This course will offer practical experience in the many phases of dance productions, concerts and demonstrations. It will also be primarily concerned with the performing aspect of dance as well as some choreography and staging.
Transfer credit: CSU; UC†

DANCE 52 -- 3 Units
Children's Dance Theatre
Recommended Preparation: Concurrent enrollment in dance technique class
Class Hours: 2 lecture, 4 activity
This course offers students opportunities for participating in the creating, organizing, and producing of a dance production for children. Students may be involved in one or more aspects as well as performing.
Transfer credit: CSU

DANCE 55 -- 3 Units
Dance Ensemble
Prerequisites: A previous dance course; concurrent enrollment in dance technique class
Class Hours: 2 lecture, 4 activity
This course is a rehearsal and performance course focusing on learning various repertoire choreographed by students, faculty and/or outside guest choreographers. Students will perform in a formal concert.
Transfer credit: CSU; UC†

DANCE 60A-Z -- 1-3 Units
Topics in Dance
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Dance not covered in detail in the general course offerings. Topic courses are announced on a semester basis in the schedule of classes.
Transfer credit: CSU; UC pending
The Drafting Technology program prepares the student for careers related to construction, architecture, and civil engineering. Students will be trained in the use of Computer-Aided Design (CAD) equipment as well as conventional drafting machines and instruments.

**Career Opportunities**

<table>
<thead>
<tr>
<th>Drafted by</th>
<th>Training in</th>
<th>Counseling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draft</td>
<td>Construction Trades</td>
<td>Edna Ingram</td>
</tr>
<tr>
<td>Architectural Assistant</td>
<td>Building Plan Reader</td>
<td>Leticia Mai</td>
</tr>
<tr>
<td>Construction Assistant</td>
<td>Civil Engineering Assistant</td>
<td>Danita Redd Terry</td>
</tr>
</tbody>
</table>

**Faculty**

<table>
<thead>
<tr>
<th>Part-Time</th>
<th>Counselors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ralph Arnold</td>
<td>Edna Ingram</td>
</tr>
<tr>
<td>Cheryl Barrett</td>
<td>Leticia Mai</td>
</tr>
<tr>
<td>Michael Berman</td>
<td>Danita Redd Terry</td>
</tr>
<tr>
<td>Tommie Craft</td>
<td></td>
</tr>
<tr>
<td>Jamie Crowley</td>
<td></td>
</tr>
<tr>
<td>Laurence Stanton</td>
<td></td>
</tr>
<tr>
<td>Joyce Studebaker</td>
<td></td>
</tr>
<tr>
<td>James Sutton</td>
<td></td>
</tr>
</tbody>
</table>

### Drafting Technology/CAD

#### Certificate of Completion

**Preparation for the Major:**

Math 1 or equivalent skills which may be measured by the college assessment process.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 1</td>
<td>Intro to Drafting</td>
</tr>
<tr>
<td>DT 2A</td>
<td>Computer-Aided Drafting I</td>
</tr>
<tr>
<td>DT 2B</td>
<td>Computer-Aided Drafting II</td>
</tr>
<tr>
<td>DT 3</td>
<td>Architectural Drafting I</td>
</tr>
<tr>
<td>DT 4</td>
<td>Architectural CAD</td>
</tr>
<tr>
<td>DT 11</td>
<td>Building Codes</td>
</tr>
</tbody>
</table>

**Required Additional Courses:**

Select one of the following options:

**Architectural Option**

This option is for students interested in jobs related to the design and building of structures. Students are required to complete the core curriculum plus the following courses:

- DT 5 | Architectural Drafting II | 3 |
- DT 8 | Energy Conservation Code | 3 |
- DT 9 | Fundamentals of Structural Design | 3 |

**Civil Engineering Option**

This option is for students interested in entry-level jobs in the field of civil engineering such as engineering assistant or draftsman. Students are required to complete the core curriculum plus the following courses:

- DT 6 | Building Site Drafting | 3 |
- DT 9 | Fundamental of Structural Design | 3 |
- DT 13 | Construction Materials | 3 |

**Construction Option**

This option is for students that are interested in entry-level positions in the construction industry. Students are required to complete the core curriculum plus the following courses:

- DT 5 | Architectural Drafting II | 3 |
- DT 10 | Construction Cost Estimating | 3 |
- DT 13 | Construction Materials | 3 |
- DT 14 | Construction Blueprint Reading | 3 |

Total minimum units required -- 27-30

### Drafting Technology/CAD Courses

**DT 1 -- 3 Units**

Introduction to Drafting

Class Hours: 2 lecture, 3 laboratory

This introduction to drafting and descriptographic practice includes use and care of drafting equipment and instruments, lettering, theory of orthographic projection, pictorial drawings, sketches, working drawings. Prerequisite to all drafting and design courses. **Transfer credit: CSU**

**DT 2A -- 3 Units**

Computer-Aided Drafting I

Prerequisite: DT 1 or equivalent

Class Hours: 2 lecture, 3 laboratory

This course introduces the student to AutoCAD, Computer-Aided Design computer software. Students will interactively explore CAD drawing concepts, principles, and commands while preparing technical drawings. May be taken two (2) times for credit. **Transfer credit: CSU**

**DT 2B -- 3 Units**

Computer-Aided Drafting II

Prerequisite: DT 2A or equivalent

Class Hours: 2 lecture, 3 laboratory

This course will continue to develop the student's ability to use AutoCAD. Intermediate and advanced functions will be taught for two- dimensional and three-dimensional drawings. This course will prepare students to continue with AutoCAD into their desired discipline. May be taken two (2) times for credit. **Transfer credit: CSU**

**DT 3A & DT 3B -- 3 Units**

Architectural Drafting I

Prerequisite: DT 1

Class Hours: 2 lecture, 3 laboratory

This is a course in the preparation and interpretation of architectural working drawings and specifications, with emphasis on light wood frame construction. Local planning ordinances, uniform building codes, architectural graphic standards and information published by Building Product Manufacturers will be utilized as reference materials. **Transfer credit: CSU**

**DT 4 -- 3 Units**

Architectural CAD

Prerequisites: DT 2B, DT 3 or equivalent

Class Hours: 2 lecture, 3 laboratory

This course will introduce students to the development of architectural drawings with the use of computer-aided drafting, utilizing three- dimensional for a walk-through effect. May be taken two (2) times for credit. **Transfer credit: CSU**

**DT 5 -- 3 Units**

Architectural Drafting II

Prerequisite: DT 3

Class Hours: 2 lecture, 3 laboratory

This is a course in the preparation and interpretation of architectural drawings with emphasis on heavy timber, concrete, masonry, and steel construction. **Transfer credit: CSU**

**DT 6 -- 3 Units**

Building Site Drafting

Prerequisite: DT 3

Class Hours: 2 lecture, 3 laboratory

This course is an introduction to civil engineering drafting which includes survey notation, graphic translation of survey notes, grading, site planning and utilities. **Transfer credit: CSU**

**DT 8 -- 3 Units**

Energy Conservation Code

Class Hours: 3 lecture

This course covers Title 24 of the State Energy Code. The course will cover requirements of the code and show the student how to complete the necessary forms.

**DT 9 -- 3 Units**

Fundamentals of Structural Design

Prerequisites: Math 1 or equivalent and DT 1

Class Hours: 3 lecture
The structural members of small frame buildings will be analyzed and designed. The complete structural calculations for a residence, a commercial and an industrial building will be developed.

**DT 10 -- 3 Units**  
**Construction Cost Estimating**  
Prerequisites: Math 1, DT 1 or equivalent  
Class Hours: 3 lecture  
The class covers principles and practices in making quantity surveys and labor estimates for construction projects. Three field trips.  
*Transfer credit: CSU*

**DT 11 -- 3 Units**  
**Building Codes**  
Class Hours: 3 lecture  
This course covers various building codes that relate to structural, plumbing, heating and air conditioning, and electrical components of buildings that are constructed in Southern California.

**DT 13 -- 3 Units**  
**Construction Materials**  
Class Hours: 3 lecture  
Students learn to use and apply building materials to the structural composition of modern residences, commercial and industrial buildings.

**DT 14 -- 3 Units**  
**Construction Blueprint Reading**  
Class Hours: 3 lecture  
The student will learn to read construction drawings for typical buildings. These include wood frame, masonry, concrete and steel construction used in residential, commercial and industrial projects.  
*Transfer credit: CSU*

**DT 22A/B -- 1-3/1-3 Units**  
**Independent Studies in Drafting Technology/CAD**  
Prerequisite: A previous course in Drafting Technology  
Class Hours: 1-3 tutorial  
This course is for students who are interested in furthering their knowledge of drafting technology on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units.  
*Transfer credit: CSU*

**DT 30 -- 3 Units**  
**Mechanical Drawing**  
Prerequisite: DT 1 or equivalent  
Class Hours: 2 lecture, 3 laboratory  
This course in mechanical drawing is designed to expand and increase skills in mechanical drawing. It will cover complete working drawings, exploded view and assembly drawings, emphasizing section views, screws and fasteners, inking and increased skill in lettering.  
*Transfer credit: CSU*

**DT 31 -- 3 Units**  
**Interior Design Drafting**  
Class Hours: 3 lecture  
This course covers floor plans, elevations, orthographic and isometric sketches and drawings, and building requirements that are used to prepare interior design drawings.  
*Transfer credit: CSU*

**DT 32 -- 3 Units**  
**Mechanical Blueprint Reading**  
Class Hours: 3 lecture  
Students learn to interpret mechanical drawings typical of those found in the mechanical field theory of common types of projections, dimensioning principles, and machine standards, application by creative sketching and by interpretation of blueprints.

**DT 89A-Z -- .5-3 Units**  
**Institutes in Drafting Technology/CAD**  
Class Hours: Variable  
This short-term lecture series is designed to develop the abilities and skills of the participants through appropriate activities. Emphasis is placed on the acquisition of specialized knowledge in a particular segment of drafting.
Economics

The major in economics leads to careers in business or government and offers valuable preparation for various professions including law and journalism. The study of economics provides the opportunity to build a solid foundation for graduate study in either economics or administration.

Career Opportunities

<table>
<thead>
<tr>
<th>B.S. Level</th>
<th>(Most careers require advanced degrees)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economist</td>
<td>Securities Analyst</td>
</tr>
<tr>
<td>Assessor</td>
<td>Management Trainee</td>
</tr>
<tr>
<td>Financial Planner</td>
<td>Economic Development Coordinator</td>
</tr>
<tr>
<td>Stock Broker</td>
<td></td>
</tr>
</tbody>
</table>

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselor</th>
<th>Lisa Raufman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peter Gucciardo</td>
<td>Rex Edwards</td>
<td>Lisa Raufman</td>
<td></td>
</tr>
<tr>
<td>Robert Herman</td>
<td>Fred Starmer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Economics Courses

ECON 1 -- 3 Units
Principles of Micro-Economics
Class Hours: 3 lecture
This course is an introduction to economic institutions and to issues of economic policy, especially those issues relating to the efficient use of scarce resources. Students develop a method of thinking by investigating and applying the principles of economic inquiry. Students learn how exchange acts as a social system of making choices about the consumption, production, and distribution of those resources. Transfer credit: CSU; UC. CAN: ECON 4

ECON 2 -- 3 Units
Principles of Macro-Economics
Class Hours: 3 lecture
This course provides further development of a method of thinking by investigating and applying the principles of economic inquiry. It is an introduction to economic institutions and to issues of economic policy, especially as those issues relate to the levels of employment and prices and to the rate of economic growth. Exchange is studied as a social system of making choices that determine policies, that influence or determine aggregate economic activity. Transfer credit: CSU; UC. CAN: ECON 2

ECON 4 -- 3 Units
Economic Development of the United States
Class Hours: 3 lecture
This course concerns the evolution of U.S. economic institutions as revealed by economic analysis and quantitative data, as well as the application of economics to other social sciences, to social change, and to economic problems. Transfer credit: CSU; UC

ECON 22A/B -- 1/3/1-3 Units
Independent Studies in Economics
Prerequisite: A previous course in Economics
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of economics on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC. CAN: ECON 2

ECON 30 -- 3 Units
Introduction to Business and Economics
Recommended Prep: Completion of ENGL 02 or eligible for ENGL 01A as measured by the college assessment process
Class Hours: 3 lecture

This course examines the basic concepts and functions of business and the application of economic principles to the operation of business. It explores business organization, ethics, finance, accounting, securities markets, supply and demand, the banking system, and international business. Emphasis is placed on the practical application of business principles in a contemporary economic and social environment. (Co-numbered BUS 30). Transfer credit: CSU; UC

ECON 60A-Z -- 1-3 Units
Topics in Economics
Prerequisites: To be determined for each Topic
Class Hours: To be determined for each Topic
This is a special series of courses each of which deals with a specific topic in Economics not covered in detail in the general Economics course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC. CAN: ECON 4

Topics which have been developed include:

60A -- 3 Units
The USSR in Transition: The Economy
Class Hours: 3 lecture
The course aims at exploring the environment of economic reforms in the Soviet Union.
Electronics Technology

In today's world of high technology many jobs require various degrees of familiarity with electronics. There is a wide choice of careers for technology students, including occupations in business, industry, education and government. Whether or not an individual intends to devote his/her professional career to the field of electronics, it is beneficial to acquire some knowledge of it in this ever-changing technological environment.

Electronics students can receive technical information to solve electronics problems by using the technical information exchange of the American Vacuum Society (AVS) BBS. Please call (805) 378-1400, Ext. 1780 for the BBS telephone number. The BBS is on line 24 hours/day, 2400/1200 baud, N81.

Career Opportunities

A.S. Level

Automobile Electronics Technician
Communications Technician
Electronics Assembly Supervisor
Electronics Maintenance Technician
Electronics Metrology Technician
Electronics Troubleshooter
Field Service Representative
Instrumentation Technician
Numerical Control Technician
Test Equipment Technician

Bench Technician
Computer Repair
Computer Technician
Electronics Assembly
Electronics Sales
Electronics Technician
Equipment Technician
Microwave Technician
Robotics Technician
Traveling Technician

B.S. Level

Electronics Instructor
Field Engineer

Sales Engineer
Technical Trainer

Faculty

Full-Time
Sergio Monteiro
Clara Grates
Frank Jones
Youssef Kohanzadeh
Mark Kopitz
Leon Rouge

Part-Time
Counselors
Edna Ingram
Danita Redd Terry

Preparation for the Major:
Electronics - Students with no prior experience with electronics are to take EL 1/1L or EL 1X prior to or concurrently with EL 10/10L.

Required Courses:

Units
EL 8 IBM-Clones Hardware for Novices 1
EL 10/10L Passive Circuits/Lab 4
EL 10/10L Analog Circuits/Lab 4
EL 17/17L Digital Circuits/Lab 4
EL 18 Upgrading and Repairing PC’s 1
EL 21 Microprocessors and Microcomputers 2
EL 23 Computer-Aided Circuit Analysis - PSpice 2
EL 24 Diagnostics, Trouble Shooting & Repair 2
EL 27 Microcomputer Applications 2

Elective Courses:
Select a minimum of four units from the following:

BIS 10A Intro to the PC and DOS 1
BIS 10B Advanced DOS Functions 2
EL 30 Broadcast Engineering Certification 3
EL 31 Telephone and Wire Communication Certification 3
EL 41 Introduction to NetWare 2
EL 42 NetWare Service and Support 2

Total minimum units required in major area - 29

Recommended Course: EL 29

Suggested Course Sequence:

First Semester
EL 10/10L 4
EL 16/16L 4
8

Second Semester
EL 8 1
EL 17/17L 4
EL 18 1
EL 23 2
8

See Degree Requirements and Transfer Information section for General Education requirements.

Network Engineer

Occupational
Associate in Science Degree
Certificate of Achievement

The network engineer option for the electronics technology program at Moorpark College prepares students for a career in the field of computer networking. This program offers a solid technical background which includes analog and digital electronics (listed in the Electronics Technology section), and DOS and Windows (listed in the Business Information Systems section). In addition to these required courses, students are encouraged to take advantage of college courses in word processing, spreadsheets, databases (listed in the Business Information Systems section), as well as C, C++, visual C and other programming languages (listed in the Computer Science section).

The 40s series of courses listed in this section is designed to prepare you for the Novell CNE certification tests (which must be taken outside Moorpark College, at one of the authorized centers). Required Courses:

Units
BIS 10A Intro to the PC and DOS 1
BIS 10B Advanced DOS Functions 2
BIS 19 Introduction to Windows 1
EL 10/10L IBM-Clones Hardware for Novices 1
EL 10/10L Passive Circuits/Lab 4
EL 16/16L Analog Circuits/Lab 4

74
EL 17/17L - Digital Circuits/Lab
EL 18 - Upgrading and Repairing PC's
EL 21 - Microprocessors and Microcomputers
EL 23 - Computer-Aided Circuit Analysis - PSPice
EL 24 - Diagnostics, Trouble Shooting & Repair
EL 27 - Microcomputer Applications
EL 41 - Introduction to NetWare
EL 42 - NetWare Service and Support
EL 45 - Networking Technologies
EL 46 - Network Installation and Troubleshooting
EL 48 - NetWare Connect (WAN)
EL 49 - NetWare Global MHS

Total minimum units required in major area -- 34

Suggested Course Sequence:

First Semester
BIS 10A ........................................... 1
BIS 19 ........................................... 2
EL 10/10L ....................................... 4
EL 16/16L ....................................... 4

Second Semester
BIS 10B ........................................... 2
EL 8 ............................................. 1
EL 17/17L ....................................... 4
EL 18 ........................................... 1
EL 23 ........................................... 1

Third Semester
EL 21 ........................................... 2
EL 24 ........................................... 2
EL 41 (1st 8 wks) ................................ 2
EL 42 (2nd 8 wks) ................................ 2

Fourth Semester
EL 27 ........................................... 2
EL 45 (1st 8 wks) ................................ 2
EL 46 (1st 8 wks) ................................ 2
EL 48 (2nd 8 wks) ................................ 2
EL 49 (2nd 8 wks) ................................ 2

See Degree Requirements and Transfer Information section for General Education requirements.

Computerized Composition
See Graphic Communications for curriculum

Electronics Technology Courses

EL 1 -- 3 Units
Introduction to Electronics
Prerequisite: Math 1 or equivalent college course, or equivalent skills which may be measured by the college assessment process or one year of high school algebra
Class Hours: 3 lecture

This is an introductory course in electronics intended for both technically and non-technically-minded students. The presentation of basic concepts and theory is reinforced by laboratory experiments in concurrent or later EL 1L enrollment. The scope ranges from electron theory to microcomputers, with emphasis on passive and active devices, amplifiers, oscillators and digital circuits. The course includes practical applications of electronics to business, science, industry and entertainment.

EL 1L -- 1 Unit
Introduction to Electronics Laboratory
Prerequisite: Concurrent or previous enrollment in EL 1
Class Hours: 3 laboratory

This course supplements lecture course EL 1 by providing laboratory experiments to illustrate and demonstrate application of lecture concepts. Practical use of electronic parts, circuit breadboarding and measurement equipment is emphasized.

EL 2 -- 3 Units
Introduction to Microprocessors
Class Hours: 3 lecture

This general introduction to the operation and application of the microprocessor will include numbering systems and basic logic building blocks, partitioning and architecture, interfacing and interface devices, the TTY, CRT, keyboard, cassette loader, programming, microprocessor applications, the 8080 microprocessor will be stressed throughout the course.

EL 8 -- 1 Unit
IBM-Clones Hardware for Novices
Class Hours: 1 lecture, 3 laboratory for 8 weeks

This is an introductory course for persons with no previous exposure to computers and electronics. The student will learn some electronics as applied to the IBM-clones. The student will assemble an IBM-clone in the lab. May be taken four (4) times for credit.

EL 10 -- 3 Units
Passive Circuits
Prerequisites: Previous experience in electronics or concurrent enrollment in EL 1/1L or EL 1X
Corequisite: EL 10L
Class Hours: 3 lecture

This course studies the main passive components of electronic circuits including resistors, capacitors, and inductors. Their behavior in AC and DC circuits is discussed. Particular attention is paid to their variation with temperature, current, electronic environment as well as on their reliability and manufacturing methods.

EL 10L -- 1 Unit
Passive Circuits Laboratory
Corequisite: EL 10
Class Hours: 3 laboratory

Measurements are made on AC and DC circuits. Measurements include electrical potential and currents (magnitude and phase) as a function of frequency. Investigation of environmental factors (temperature, current, voltage humidity, aging, etc.) on passive devices are studied.

EL 16 -- 3 Units
Analog Circuits
Corequisites: EL 10/10L, EL 16L or equivalent course or equivalent electronics work experience
Class Hours: 3 lecture

Analysis of active electronic devices such as diodes, transistors, FETs, and op-amps will occur. Topics discussed include, but are not limited to, d6, gain, frequency response and feedback.

EL 16L -- 1 Unit
Analog Circuits Laboratory
Corequisite: Concurrent enrollment in EL 16
Class Hours: 3 laboratory

In this laboratory the student will build circuits similar to the circuits discussed in the lecture. There will be ample opportunity to discuss individual projects, in which the students may be involved, either in their work or as a hobby.

EL 17 -- 3 Units
Digital Circuits
Prerequisites: EL 1/1L or EL 1X or equivalent course or equivalent electronics work experience
Corequisite: EL 17L
Class Hours: 3 lecture

This course studies the main digital logic functions (e.g., AND, OR and other gates, Flip-flops, counters, decoders, etc.). These digital functions are studied in applications such as stopwatches, frequency counters, and digital oscilloscopes.

EL 17L -- 1 Unit
Digital Circuits Laboratory
Corequisite: Concurrent enrollment in EL 17
Class Hours: 3 laboratory

In this laboratory the student will design and build projects compatible with the lecture part of this class. Examples of such projects are digital clock and stop-watch, and hardware logic to control a microwave oven. Students are encouraged to bring their own ideas and needs to use as class projects.

EL 18 -- 1 Unit
Upgrading and Repairing PC's
Corequisites: EL 17/17L or equivalent electronics work experience
Class Hours: 1 lecture, 3 laboratory for 8 weeks

This course is intended for individuals with a limited knowledge of the IBM-PC clone hardware, yet with some knowledge of digital hardware. Students will learn upgrading and repairing of personal computers. May be taken four (4) times for credit.
EL 20 -- 3 Units
Communication Electronics
Prerequisites: EL 16/16L
Class Hours: 3 lecture
This is an up-to-date survey of modern communication devices and systems. Course covers analog and digital communications, antennas, transmission lines, fiber optics, microwaves, as well as various modulation and demodulation techniques.

EL 20L -- 1 Unit
Communication Electronics Laboratory
Prerequisites: EL 16/16L and concurrent enrollment in EL 20
Class Hours: 3 laboratory
This laboratory course reinforces the principles discussed in the Communication Electronics lecture course. Basic communication circuits are constructed and tested. Troubleshooting is emphasized throughout the course.

EL 21 -- 2 Units
Microprocessors and Microcomputers
Prerequisites: EL 17/17L or equivalent course or equivalent electronics work experience
Class Hours: 1 lecture, 3 laboratory
This is a basic course in microprocessors and applications. Typical programming techniques, I/O functions and interface are studied. The course specifically discusses the Intel (80x86) and microprocessors. Simple programs are implemented in the laboratory.

EL 22A/B -- 5-3/5-3 Units
Independent Studies in Electronics
Prerequisite: A previous course in Electronics Technology
Class Hours: 5-3 tutorial
This course is for students who are interested in furthering their knowledge of electronics technology on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units.

EL 23 -- 2 Units
Computer-Aided Circuit Analysis - PSpice
Prerequisites: BIS 10A or BIS 19 and EL 10/10L and EL 16/16L or equivalent work experience
Class Hours: 1 lecture, 3 laboratory
This is a course on computer-simulation methods in electronics utilizing PSpice. The course covers the basics of creating the circuits, all the passive devices (resistors, capacitors, inductors, transformers, diodes), and some active devices (electric potential and current sources). Special emphasis is placed on AC network analysis, including passive filters and Fourier analysis.

EL 24 -- 2 Units
Diagnostics, Troubleshooting and Repair
Prerequisites: EL 16/16L, EL 17/17L
Class Hours: 1 lecture, 3 laboratory
This is a basic course in the procedures and methods used in troubleshooting typical electronic equipment. The systematic approach is emphasized and applied to analog and digital circuits. Laboratory experiments reinforce the principles of troubleshooting.

EL 27 -- 2 Units
Microcomputer Applications
Prerequisites: EL 16/16L, EL 21 or equivalent
Class Hours: 1 lecture, 3 laboratory
This course offers a study of modern applications of microcomputers in science, engineering, and industry. The study is primarily hardware oriented, but the necessary software is also considered. Topics covered include: I/O procedures for the serial and parallel ports, RS232C, IEEE-488, process control, measurement techniques, numeric control, and microprocessor development.

EL 28 -- 3 Units
Industrial Electronics
Prerequisites: EL 17/17L, EL 21
Class Hours: 3 lecture
This course is a thorough overview of modern electronics in industry. The first part of the course deals with electrical power systems, transformers, motors, actuators, switches. The remainder of the course covers various electronic circuits that control/actuate electro-mechanical devices; for example, power supplies, transducers, optoelectronic devices, computer control, and robotics. Transfer credit: CSU

EL 28L -- 1 Unit
Industrial Electronics Laboratory
Prerequisite: Concurrent enrollment in EL 28
Class Hours: 3 laboratory
This course provides \"hands-on\" experience with modern industrial electronics circuits. Frequently-used circuits will be built, tested, and repaired. The basic principles of process control are studied through the actual constructing and operating of control electronics hardware. Transfer credit: CSU

EL 29 -- 1 Unit
Industrial Seminar
Prerequisites: EL 16/16L, EL 17/17L
Class Hours: 1 lecture
This course is designed to acquaint the student with various aspects of the electronics industry by means of a series of guest lectures. Typical topics of the seminars include: recent advancements in electronics, job placement, resume writing and job interviews, and working in the industrial environment.

EL 30 -- 3 Units
Broadcast Engineering Certification
Prerequisites: EL 16/16L and EL 17/17L or equivalent courses or equivalent electronics work experience
Class Hours: 3 lecture
This course will cover all aspects of electronics, communications, regulations and engineering technology to pass the certification exam in broadcast engineering. This certification is issued at the end of EL 30 to the students who pass the test.

EL 31 -- 3 Units
Telephone and Wire Communication Certification
Prerequisites: EL 16/16L and EL 17/17L or equivalent courses or equivalent electronics work experience
Class Hours: 3 lecture
This course will cover all aspects of electronics, communications, and industry. The course involves the study of electrical and electronic components and equipment, and the application of these components and equipment to the solution of problems in communications systems. Topics covered include: wiring and installation, trouble shooting, and repair. The course is designed to prepare students for a career in the telecommunications industry. Transfer credit: CSU

EL 41 -- 2 Units
Introduction to NetWare
Prerequisites: BIS 10B and EL 8 or equivalent experience
Class Hours: 3 lecture, 3 laboratory for 8 weeks
This course encompasses the fundamental skills needed to install a NetWare network. This course begins with a discussion of networking and NetWare basics, then proceeds through the discussion of the hardware requirements to the final installation of a system. Topics covered in this course are network and NetWare; servers and clients; cables and applications. May be taken four (4) times for credit.

EL 42 -- 2 Units
NetWare Service and Support
Prerequisite: EL 41 or equivalent experience
Class Hours: 3 lecture, 3 laboratory for 8 weeks
This course focuses on installing, maintaining, and troubleshooting NetWare networks. Class discussion topics include network adapter configuration, network cabling, disk expansion, troubleshooting techniques and common network problems. Frequent lab exercises give participants ample hands-on experience to implement the skills they learn in class. A lab exercise follows each installation and upgrade discussion, and the course culminates in troubleshooting lab exercises. May be taken four (4) times for credit.

EL 45 -- 1 Unit
Networking Technologies
Prerequisites: EL 8 and EL 41 or equivalent experience
Class Hours: 1 lecture, 3 laboratory for 8 weeks
This course focuses on the basic concepts of data communications, networking and connectivity. Topics discussed in this course include: OSI, data translation, data transmission, network structures, ethernet, token-ring and ARCNet, IEEE 802. May be taken four (4) times for credit.
EL 46 -- 1 Unit
Network Installation and Troubleshooting
Prerequisites: EL 8, EL 21 and EL 41 or equivalent experience
Corequisite: EL 27
Class Hours: 1 lecture, 3 laboratory for 8 weeks
This course focuses on the installation and troubleshooting of
NetWare for SAA served-based system and the NetWare 3270 LAN
Workstation client system. May be taken four (4) times for credit.

EL 48 -- 1 Unit
NetWare Connect (WAN)
Prerequisites: EL 8, EL 21 and EL 41 or equivalent experience
Corequisite: EL 27
Class Hours: 1 lecture, 3 laboratory for 8 weeks
This course serves Novell asynchronous connectivity products
designed to provide multiple access methods to file services, appli-
cations services, and communication services on local and remote
Wide Area Networks. Topics discussed are NASI connection services,
Remote Node Services (RNS), asynchronous communication methods
and modems. May be taken four (4) times for credit.

EL 49 -- 1 Unit
NetWare Global MHS
Prerequisites: EL 8, EL 21 and EL 41 or equivalent experience
Corequisite: EL 27
Class Hours: 1 lecture, 3 laboratory for 8 weeks
This course provides information about the features and benefits of
NetWare Global MHS. Upon completion of the course, participants will
be able to install and configure NetWare Global MHS and transfer
messages to other servers using asynchronous connections. May be
taken four (4) times for credit.

EL 89A-Z -- .5-3 Units
Institutes in Electronics*  
Class Hours: Variable
This short-term lecture series designed to develop the abilities and
skills of the participants through appropriate activities places emphasis
on the acquisition of specialized knowledge in a particular segment of
electronics.
The field of engineering is a particularly broad one which affords the student the choice of several areas in which to specialize. The lower-division course work described below is designed to provide basic preparation for any of these choices.

Career Opportunities

B.S. Level

(Opportunities are bachelor or post-graduate level)

Mechanical Engineer
Chemical Engineer
Civil Engineer
Electrical Engineer
Water Quality Engineer
Nuclear Engineer
Environmental Engineer
Sanitary Engineer
Process Engineer
Hydraulic Engineer
Project Engineer
Geotechnical Engineer
Systems Engineer
Computer Engineer
Stationary Engineer
Aerospace Engineer
Biomedical Engineer
Industrial Engineer
Manufacturing Engineer
Metallurgical Engineer
Mining Engineer
Naval Engineer
Petroleum Engineer
Plastics Engineer
Astronautical Engineer
Structural Engineer
Traffic Engineer
Electronic Systems Engineer
Automotive Engineer
Robotics Engineer
Artificial Intelligence Engineer
Military Pilot

Faculty

Full-Time

Fred Meyer
Robert Ayer
Michael Mitchell

Part-Time

Counselors

Edna Ingram
Letticia Mai
Danita Redd Terry

Ph 20A/20AL...Mechanics of Solids and Fluids/Lab ....5
Ph 20B/20BL...Electricity and Magnetism/Lab ....5
Ph 20C/20CL...Wave Motion, Heat, Optics & Modern Physics/Lab ...5
Total minimum units required in major area — 46
Recommended courses: Chem 1B; CS 10A/10AL; CS 10B/10BL;
CS 10C/10CL; CS 18/18L; Math 35

Suggested Course Sequence:

First Semester

Chem 1A..................6
Engr 4*..................3
Math 25A..................5

Second Semester

Engr 12..................3
Math 25B..................5
Ph 20A/20AL.............5

Third Semester

Engr 16*..................4
Math 25C..................5
Ph 20B/20BL.............5

Fourth Semester

Engr 20/20L.............4
Math 25C..................5
Ph 20C/20CL.............5

* This degree requires either Engr 16 or Engr 20/20L

Environmental Technology Option

Occupational

This occupational program is designed to award an Associate in Science Degree in Environmental Technology to those students who have completed the requirements listed. These requirements were specified by a Moorpark College Industrial Advisory committee of working professionals in the environmental field and will be reviewed annually. Graduates of this program are prepared to provide technical support to engineers, scientists and other professionals in this fast-growing field.

Preparation for the Major:

Mathematics — two years high school algebra or Math 3 or equivalent.

Required Courses:

Units

Biol 1*........... Principles of Biology (A1) .......4
BIS 10A...........Intro to the PC and DOS .......1
BIS 15A...........Wordperfect I ................1
Chem 12...........Introductory Chemistry I ..........5
Chem 13...........Introductory Chemistry II ..........5
EL 1/1L...........Introduction to Electronics/Lab ..4
Engl 1A*...........English Composition (D1) ....3
Engl 11...........Report and Technical Writing ....3
Env Sc 1*...........Environmental Science (A2) ....4
Env Sc 2*...........Environment and Human Interactions (A1) ....4
Env Sc 4...........Environmental Regulations ..........1.5
Env Sc 5...........Environmental Sampling and Instrumentation ...1.5
Geol 1...........Introductory Geology ..........3
HE 1*...........Health and Society (E1) ..........2
Math 15*...........Introductory Statistics (D2) ....5
Ph 1...........Descriptive Physics ........3
Sphc 1*...........Introduction to Speech (C2) ....3

Total required units in major — 53-25 (GE) = 28

Note: EL 1X may be taken in lieu of EL 1/1L for a net reduction of two units in the major requirement.

Recommended Electives: BIS 13A; CIS; CS 1/1L; DT 1, 2A; Journ;
Psych 11

We strongly recommend: CA Drivers License P with Hazard Material endorsement and Red Cross approved CPR course.

Suggested Course Sequence:

...
Experiments in passive and active electrical circuits will be conducted to reinforce the concepts studied in Engr 20. Transfer credit: CSU; UC credit limitations.

ENGR 22A/B -- .5-.5-.5 Units
Independent Studies in Engineering
Prerequisite: A previous course in Engineering
Class Hours: 5-5-5 tutorial
This course is for students who are interested in furthering their knowledge of engineering on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

Engineering Courses
The UC system allows credit for a maximum of 16 units of engineering courses.

ENGR 4 -- 3 Units
Engineering and Design/CAD
Prerequisite: DT 1 or one year of high school drafting or equivalent
Class Hours: 2 lecture, 3 laboratory
This course is designed to further the student's understanding of the engineering profession. This is accomplished with lecture/discussion on selected topics including systematic design techniques, written communication, makeup of the various engineering programs, and an overview of the engineering profession. A laboratory in engineering graphics/design is provided, which includes extensive use of computer-aided drafting software. Design projects are required. Transfer credit: CSU; UC credit limitations. CAN: ENGR 2

ENGR 12 -- 3 Units
Engineering Materials
Prerequisites: Chem 1A, Ph 20A/20AL
Class Hours: 3 lecture
This introductory course on the engineering properties of materials applies the basic principles of the atomic and crystal structure of solids to the study of properties, and to the selection and use of engineering materials. Transfer credit: CSU; UC credit limitations. CAN: ENGR 4

ENGR 16 -- 4 Units
Engineering Statics and Strength of Materials
Prerequisites: Ph 20A/20AL
Class Hours: 4 lecture
This course covers vector algebra, equivalent force systems, free body diagrams and equilibrium, structural mechanics, behavior of deformable solids, stress and strain tension, compression, flexure, torsion, beams, columns, statically indeterminate problems, multiaxial stresses, theories of strength. Transfer credit: CSU; UC credit limitations. CAN: ENGR 8

ENGR 20 -- 3 Units
Electrical Engineering Fundamentals
Prerequisite: Ph 20B
Corequisites: Engr 20L, Math 35
Class Hours: 3 lecture
This course is an introduction to the theory and analysis of electrical circuits, basic circuit elements including the operational amplifier, circuit theorems, dc circuits, forced and natural responses of simple circuits, sinusoidal steady state analysis and the use of a standard computer-aided circuit analysis program. Consideration will be given to power, energy, impedance, phasors, and frequency response. Transfer credit: CSU; UC credit limitations. CAN: ENGR 6 (Engr 20 & 20L)

ENGR 20L -- 1 Unit
Electrical Engineering Fundamentals Laboratory
Prerequisite: Ph 20BL
Corequisite: Engr 20
Class Hours: 3 laboratory
Engineering Technology

With emphasis on practical skills, the Engineering Technology courses are targeted at upgrade training for technicians, engineers and other employees who need to remain current in high technology areas. Additional courses will be developed in response to the needs of industry.

Career Opportunities

<table>
<thead>
<tr>
<th>Laser Technician</th>
<th>Electro-Optic Technician</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Optic Technician</td>
<td>Research Technician</td>
</tr>
<tr>
<td>Fiber Optic Installer</td>
<td>Electro-Optical Sales Specialist</td>
</tr>
</tbody>
</table>

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinton Harper</td>
<td>Hadi Darejeh</td>
<td>Edna Ingram</td>
</tr>
</tbody>
</table>

Associate in Science Degree
See Physics, Electro-Optics Option

Engineering Technology Courses

**ET 10 -- 2 Units**
Introduction to Lasers and Fiber Optics
Prerequisite: Math 3 or equivalent college course, or two years of high school algebra
Class Hours: 1.5 lecture, 1.5 laboratory
This is an introductory course in the theory, operation and applications of lasers, fiber optics and associated instrumentation. The course is designed for technicians, engineers, medical professionals or any individual who needs a comprehensive introduction to the subject. Emphasis will be on "hands-on" activities and practical applications.

**ET 20 -- 2 Units**
Introduction to Robotic Technology
Prerequisite: Ph 10A or one year of high school physics
Class Hours: 1.5 lecture, 1.5 laboratory
This course provides students with a broad overview and hands-on introduction to robotic technology with special emphasis on practical industrial applications. Topics include mechanical and electrical aspects of robot design, interfaces and integration, sensors, computer control and programming, application case studies, robot economics and future trends. An on-campus robotics lab provides students with practical hands-on experience working with real robots. A limited introduction to several advanced applications and topics such as: underwater robotics, robotic rovers, robots in hazardous environments, machine vision, artificial intelligence, and medical applications will be presented.
The study of English offers a basic understanding of writing skills and appreciation of literature. The exploration of the possibilities of language in the human experience is a vital foundation for all learning.

Career Opportunities

B.A. Level
(Most careers require a bachelor's degree)

Editor
Manager Trainee
Scenario Writer
Legal Reporter
Report Writer
Proofreader
Novelist

Editor, House Publications
Copywriter
Journalist
Library Reference Worker
Television Writer
Technical Writer
Publicist

Library Reference Writer
Report Writer

Copy Editor
Magazine Writer

Researcher
Biographer

Program Developer
Poet

Civil Service Positions
Public Relations Worker

Executive Assistant

Faculty

Full-Time
Barbara Baker
Gillian Dale
John Davie
Bona Dillon
Richard Edwards
Kevyn Eakback
Norman Gardner
John Hanif
Anne Kaishnner
Diana Lopez
Judith Ramos
Patricia Ross
Pamela Sheridan
Sydney Sims
Michael Strumpf

Part-Time
Dianne Armstrong
Dale Alan Bailey
David Birchman
Jane Chapman
Bobbie Coleman
Jimmy Crawford
Matthew Crow
Deborah Dixon
Ralph Edsell
Shaista Gill
Beth Gillis-Smith
Charles Grogg
Francine Hallcon
Diane Hanshaw
Kate Harper
Melissa Hartman
Thomas Hughes
Ilia Jean Krathorpe
Clive Leeman
Heather McGehee
Thomas Neuburg
Kathleen Patterson
Marlene Pearson
Sandra Rayl
Todd Richardson
Monika Savic
Tracy Tennenhouse

Counselors
Mike Johnson
Mary Martin
Lisa Kaufman

Sheryl Thompson
Ann Warren
Stuart Wilson

Course work will also include the study and analysis of literature as a model for composition. Transfer credit: CSU; UC. CAN: ENGL 2

ENGL 1B -- 3 Units
Literature: Critical Thinking/Composition
Prerequisite: Engl 1A
Class Hours: 3 lecture

This course emphasizes critical thinking and writing skills in close textual analysis of issues and themes in fiction, poetry and drama as well as in non-fictional literature and literary criticism. Students will learn to distinguish between deductive and inductive reasoning, to recognize and avoid logical fallacies, and to perceive relationships between language and meaning in literature, through discussion, analysis, and instruction practice in writing. Transfer credit: CSU; UC. CAN: ENGL 4

ENGL 1C -- 3 Units
Critical Thinking and Composition
Prerequisite: Engl 1A
Class Hours: 3 lecture

This course is designed to develop critical thinking, reading, and writing skills beyond the level achieved in Engl 1A. The course will focus on the development of logical and analytical and argumentative writing skills. Transfer credit: CSU; UC

ENGL 2 -- 3 Units
Preparatory English
Prerequisite: Equivalent skills which may be measured by the college assessment process
Class Hours: 3 lecture

This course is intended for students who need help in learning to write at the college level. The course will emphasize the coherent development of a controlling idea to a reasoned conclusion. Course work will increase the student's ability to use a variety of sentence structures and to achieve relative freedom from basic errors when writing college-level papers. May be taken two (2) times for credit.

ENGL 3 -- 3 Units
Writing Skills
Class Hours: 3 lecture, 2 laboratory

This course is strongly recommended for students who need to strengthen their basic writing skills. It involves intensive practice in developing ideas, making clear statements and organizing information at the level of the short essay. Grammar, spelling, vocabulary building, and sentence structure are also emphasized in order to compose, revise and edit written essays. Students are expected to write regularly and to learn word processing skills on a computer (computer provided) as part of the composing process. May be taken twice (2) times for credit. (College credit only. Does not apply toward a degree.)

ENGL 4A -- 4 Units
English as a Second Language: Beginning Listening/Speaking
Class Hours: 4 lecture, 1 laboratory

This course develops the listening and speaking skills of beginning students of English. It emphasizes vocabulary acquisition, accurate pronunciation, and mastery of basic sentence structure. Students participate in paired and small group conversations, word games, and class discussions. Other activities include responding to video clips, popular songs and radio news; lecture and note-taking; role-playing; and student oral presentations. Brief writings and reading and grammar study supplement oral language practice. May be taken three (3) times for credit. (College credit only. Does not apply toward a degree.)

ENGL 4B -- 4 Units
English as a Second Language: Oral Language Practice
Prerequisite: Engl 4A
Class Hours: 3 lecture, 2 laboratory

This course provides practice in intermediate level English speaking and listening skills to students who are able to comprehend and express themselves in basic English. It emphasizes pronunciation, vocabulary, American English speech patterns, sentence phrasing,
syllabication, and idioms. Students participate in pair, group, and class projects which improve comprehension and verbal expression. Speeches, debates, auto and video information programs, lectures, and discussion of news clips prepare the student to handle material across the college curriculum. Grammar study and brief readings and writings on a variety of topics further increase oral language proficiency. May be taken three (3) times for credit. (College credit only. Does not apply toward a degree.)

ENGL 4C -- 3 Units
English as a Second Language-Advanced Conversation (Speaking and Listening)
Prerequisite: Engl 4B or an appropriate score on the ESL assessment test
Corequisite: None, but Engl 6C is strongly recommended
Class Hours: 3 lecture, 2 laboratory
This course offers practice in advanced level English speaking and listening skills to students who have gained fluency in intermediate conversational English. Special focus is placed on pronunciation and vocabularies of various professions. Students discuss contemporary world events and subject-matter content of college courses. Students preparing to enter programs or careers demanding a high level of communications skills can practice these skills using the vocabulary appropriate to their majors. May be taken three (3) times for credit. (College credit only. Does not apply toward a degree.)

ENGL 5 -- 3 Units
Radio-Television Writing
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This course deals with the preparation and analysis of dramatic scripts, program formats, public service announcements, local news, commercials, continuity, discussion programs, special events, talks and interviews. Training is given in the fundamentals of script format, professional methods, and the ethics and restrictions involved in the broadcasting media. (co-numbered RT 5) Transfer credit: CSU

ENGL 6A -- 4 Units
English as a Second Language-Beginning Reading and Composition
Prerequisite: Engl 4A or an appropriate score on the ESL assessment test
Corequisite: None, but Engl 4A is strongly recommended
Class Hours: 4 lecture, 1 laboratory
This course offers practice in beginning level English reading and composition skills to students whose native language is not English but who have gained some fluency in spoken English. Students receive practice in reading and writing about daily experiences using newspapers, grocery ads, magazines and beginning texts. Students are introduced to basic English syntax and sentence structure, spelling, phonics, present/past/future tenses. Simple paragraph writing and revising is introduced. May be taken three (3) times for credit. (College credit only. Does not apply toward a degree.)

ENGL 6B -- 4 Units
English as a Second Language-Intermediate Reading and Composition
Prerequisite: Engl 6A or an appropriate score on the ESL assessment test
Corequisite: None, but Engl 4B is strongly recommended
Class Hours: 4 lecture, 1 laboratory
This course offers practice in reading and writing intermediate level English to students whose native language is not English but who have gained fluency in beginning spoken and written English. Students receive opportunities to strengthen and improve their English vocabulary, reading comprehension and writing. Readings include subject-matter content found in college courses. Students' compositions are based on world events and on their readings or personal experiences. May be taken three (3) times for credit. (College credit only. Does not apply toward a degree.)

ENGL 6C -- 4 Units
English as a Second Language-Advanced Reading and Composition
Prerequisite: Engl 6B or an appropriate score on the ESL assessment test
Corequisite: None, but Engl 4C is strongly recommended
Class Hours: 4 lecture, 1 laboratory
This course offers practice in advanced level English reading and composition skills to students whose native language is not English but who have gained fluency in intermediate level English reading and writing. Students have opportunities to strengthen their vocabulary, comprehension and critical analysis of cross-cultural reading selections, as well as selections taken from subject matter of their college courses. Students' writing experiences are expanded to include essays of five or more paragraphs and responses to college essay questions. May be taken three (3) times for credit. (College credit only. Does not apply toward a degree.)

ENGL 10A -- 3 Units
Creative Writing
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This writing workshop designed to concentrate on the techniques of writing fiction and poetry provides practice in original writing, followed by discussion and analysis of student writing. Transfer credit: CSU; UC CAN: ENGL 6

ENGL 10B -- 3 Units
Creative Writing
Prerequisite: Engl 10A
Class Hours: 3 lecture
This is an advanced study of literary forms with emphasis on prose and poetry; practice in original writing followed by discussion and analysis. May be taken two (2) times for credit. Transfer credit: CSU; UC

ENGL 11 -- 3 Units
Report and Technical Writing
Prerequisite: Engl 1A
Class Hours: 3 lecture
The course will provide extensive practice in writing proposals, memos, letters, technical reports, and technical manuals. Students will analyze writing situations and use appropriate structuring, developmental, and stylistic techniques. They will do careful research and documentation and incorporate data and graphics to produce complete, accurate and useful written communications. Transfer credit: CSU

ENGL 13A -- 3 Units
Major American Writers I
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This course is a survey of American writing from the colonial era to the end of the Civil War in fiction, non-fiction, and poetry. It includes major statements by 17th and 18th century writers such as Anne Bradstreet, Edward Taylor, Jonathan Edwards, and Benjamin Franklin, as well as 19th century masterpieces by Poe, Melville, the New England Transcendentalists and Walt Whitman. Transfer credit: CSU; UC CAN: ENGL 14

ENGL 13B -- 3 Units
Major American Writers II
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This course is a survey of American writing from the post-Civil War era to the present in fiction, non-fiction, drama, and poetry. It includes works by Mark Twain, Henry James, and selected authors, poets, dramatists, and essayists. Transfer credit: CSU; UC CAN: ENGL 16

ENGL 14 -- 3 Units
Study of Poetry
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This is the study of poetry through a study of imagery, figurative language, allegory, rhythm, rhyme, etc., in American and British poetry. The close reading and discussion of selected poems will provide a basis for the writing of critical essays. Transfer credit: CSU; UC

ENGL 15A -- 3 Units
Survey of English Literature
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This course focuses on selected works by major British writers from the beginnings to the end of the 18th Century, in their historical and cultural contexts. Transfer credit: CSU; UC CAN: ENGL 8

ENGL 15B -- 3 Units
Survey of English Literature
ENGL 18 -- 3 Units
The Modern American Novel
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This is the study of representative novels by prominent American novelists from the post Civil War period to the present. Through lecture, classroom discussions, essays and tests the student will gain knowledge and a critical perspective of the unique literary contributions of major modern American novelists, as well as their relations to and reflections of their historical and cultural backgrounds. Transfer credit: CSU; UC

ENGL 19 -- 3 Units
Introduction to Short Story
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
The form and meaning of short stories are studied through intensive analysis of selected American, British and continental examples. Transfer credit: CSU; UC

ENGL 20 -- 3 Units
Study of Drama
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
English 20 is an introduction to the study of drama in its historical, cultural, and biographical context. Plays studied will range from ancient Greek tragedy to the Theatre of the Absurd. Emphasis will be on analysis and developing sound critical judgment. Critical essay writing is required. Transfer credit: CSU; UC

ENGL 21 -- 3 Units
Contemporary Novels
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
Students read and analyze post-World War II novels, American and foreign, selected because of their popularity as well as their innovative importance and literary quality. Transfer credit: CSU; UC

ENGL 22A/B -- 1-3/1-3 Units
Independent Studies in English
Prerequisite: A previous course in English
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of English on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

ENGL 25 -- 3 Units
Play Writing
Class Hours: 3 lecture
This course is designed for the student to develop his skills in writing for the theatre with the possible opportunity of production. (co-numbered ThA 21) Transfer credit: CSU

ENGL 29A -- 3 Units
Old Testament as Literature
Class Hours: 3 lecture
Students read and discuss the Books of the Old Testament, including the thirty-nine books from the Genesis to Malachi, and acquire an understanding of the history of the Old Testament Apocrypha. Form, theme, and style are studied. Transfer credit: CSU; UC

ENGL 29B -- 3 Units
New Testament as Literature
Class Hours: 3 lecture
Students read and discuss Books of the New Testament, which includes nine of the twenty-seven books of the New Testament, from Matthew to Revelation. Form, theme, and style are also studied. Transfer credit: CSU; UC

ENGL 30 -- 3 Units
Masterpieces of World Literature I
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This is a survey of representative authors from the time of Homer to the Renaissance, with intensive study of selected Greek, Roman, Medieval and Renaissance masterpieces. Transfer credit: CSU; UC

ENGL 31 -- 3 Units
Masterpieces of World Literature II
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This is a survey of major literature from the Renaissance to the present, including such authors as Locke, Voltaire, Rousseau, Goethe, Emerson, Tolstoy, Ibsen, and Mann. Transfer credit: CSU; UC

ENGL 33 -- 3 Units
Modern European Fiction
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This study of major modern European fiction includes the work of Dostoevsky, Tolstoy, Flaubert, Camus, Verga, Hesse, Gogol, Gide, Babel, and Mann. Transfer credit: CSU; UC

ENGL 45 -- 3 Units
Hispanic American Literature
Class Hours: 3 lecture
This course will provide a critical, analytical survey of Hispanic-Latino literature and screenplays. The influences of culture on the authors' perceptions will be the focus and discussions will emphasize a cross-cultural examination of poetry, prose, fiction, non-fiction, and film. Transfer credit: CSU; UC

ENGL 46 -- 3 Units
African-American Literature
Prerequisite: Engl 1A or equivalent
Class Hours: 3 lecture
This is an historical survey and critical analysis of African-American literature. The goal is to understand the Black Experience as it is embodied in American writing. Figures from the 19th and 20th centuries will be discussed, with emphasis given to the writers of the Harlem Renaissance and to the most recent authors. May be taken for credit. (2) times for credit. Transfer credit: CSU; UC

ENGL 47 -- 3 Units
Magazine Editing
Class Hours: 2 lecture, 3 laboratory
This is a course in the analysis, development, composition and layout of magazines or similar publications. Emphasis is given to coordinating feature stories and related articles with attractive pictorial displays. Instruction is also given in the graphic arts as related to magazine production. (co-numbered Journ 11A) Transfer credit: CSU

ENGL 50 -- 3 Units
Academic Reading and Study Skills
Class Hours: 3 lecture
This course is designed to prepare students for college-level work by improving comprehension, speed, study skills, vocabulary development, awareness of current events, goal setting, and time management.

ENGL 52 -- 3 Units
Advanced Academic Reading and Study Skills
Recommended Preparation: Placement through assessment testing is encouraged
Class Hours: 3 lecture
This advanced reading course provides instruction and practice in analyzing prose from various disciplines and difficulty levels. The emphasis is on the ability to recognize sophisticated prose structures, idea organization, and interrelationships of concepts. The student will learn how to make inferences, draw conclusions and critically evaluate
prose. Special emphasis will be on vocabulary development, summarizing skills and all study skills. Transfer credit: CSU

ENGL 60A-Z -- 1-3 Units
Topics in English
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in English not covered in detail in the general English course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC credit limitations.

Topics which have been developed include:

60A -- 3 Units
The Poetry of Chaucer
Prerequisite: Engl 1A
Class Hours: 3 lecture
This course emphasizes "The Canterbury Tales" and "Troilus and Criseyde." It examines Chaucer's language and literary techniques, in close reading and discussion of his major work which will be the basis for critical essays.

60W -- 3 Units
Women in Medieval Literature
Prerequisite: Engl 1A
Class Hours: 3 lecture
This course is a study of literature by and about women in medie- val Europe. Students will read and discuss historical, religious, and literary works of the Middle Ages with attention to their presentation of the nature and status of women.

ENGL 89A-Z -- .5-3 Units
Institutes in English *
Class Hours: Variable
This is a series of special lectures and discussions on selected topics to be chosen as demand and opportunities arise. These will be of great interest to the English student.
Environmental Science

Environmental Science is a multidisciplinary field covering the physical, biological, economical, and legal aspects of the environment.

Career Opportunities

A.S. Degree (Environmental Technology) For information on Environmental Technology Option, refer to the Engineering section.
Field Technician
Hazardous Waste Management
Drinking & Waste Water Laboratory Technician
Air Quality Enforcement
Environmental Testing and Auditing
Consulting Firms

B.S. Degree
Regulatory - Compliance Manager
Health and Safety Managers
Industrial Hygienists and Toxicology
Urban Planning/Environmental Analyst
Research, Teaching
Resource Manager; Ranger

Faculty

Full-Time

Muthena Naseri

Part-Time

Gary Gilmar

Dagmar Glotak

Robert Miller

Rashid Sani

Counselors

José de la Peña

Mary Martin

Environmental Studies

Associate in Arts Degree

This program is designed to award a designated associate degree to those students who have completed a course of specialization in Environmental Studies. These requirements were chosen by faculty to optimize students' preparation for upper-division coursework for Bachelor of Arts degrees in Environmental Studies offered by four-year institutions. Since the course work in environmental studies is sequential, students may spend less time earning an Associate in Arts Degree and/or Bachelor of Arts Degree by deferring some of the university general education requirements until their Junior and Senior years and giving priority to the requirements for a major in environmental studies. In addition, the earning of this degree will be evidence of achievement of critical skills which may be helpful towards the seeking of immediate employment.

Preparation for the Major:

Mathematics -- two years high school algebra plus trigonometry or Math 3 and 7 or equivalent.

Chemistry -- one year high school chemistry or Chem 12 or equivalent.

Physics -- one year high school physics or Ph 10A or equivalent.

Environmental Science students are strongly encouraged to take advantage of summer school class offerings.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth 2</td>
<td>3</td>
</tr>
<tr>
<td>Chem 12</td>
<td>5</td>
</tr>
<tr>
<td>Econ 1</td>
<td>3</td>
</tr>
<tr>
<td>Env Sc 1</td>
<td>4</td>
</tr>
<tr>
<td>Env Sc 2</td>
<td>4</td>
</tr>
<tr>
<td>Geol 2</td>
<td>1</td>
</tr>
<tr>
<td>Geol 2L</td>
<td>1</td>
</tr>
<tr>
<td>Math 15</td>
<td>5</td>
</tr>
<tr>
<td>Math 16A</td>
<td>3</td>
</tr>
<tr>
<td>Math 16B</td>
<td>3</td>
</tr>
<tr>
<td>Pol Sc 3</td>
<td>3</td>
</tr>
<tr>
<td>Total minimum units required in major area -- 37</td>
<td></td>
</tr>
</tbody>
</table>

Suggested Course Sequence:

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Econ 1</td>
<td>3</td>
</tr>
<tr>
<td>Env Sc 1</td>
<td>4</td>
</tr>
<tr>
<td>Pol Sc 3</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>10</td>
</tr>
</tbody>
</table>

Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 12</td>
<td>5</td>
</tr>
<tr>
<td>Math 16A</td>
<td>8</td>
</tr>
<tr>
<td>Total</td>
<td>13</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Env Sc 2</td>
<td>4</td>
</tr>
<tr>
<td>Math 15</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td>9</td>
</tr>
</tbody>
</table>

Fourth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth 2</td>
<td>3</td>
</tr>
<tr>
<td>Geol 2L</td>
<td>1</td>
</tr>
<tr>
<td>Math 16B</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>10</td>
</tr>
</tbody>
</table>

See Degree Requirements and Transfer information section for General Education requirements.

Environmental Science

Associate in Science Degree

This program is designed to award a designated associate degree to those students who have completed a course of specialization in Environmental Science. These requirements were chosen by faculty to optimize students' preparation for upper-division coursework for Bachelor of Science degrees in Environmental Science offered by four-year institutions. Since the course work in environmental science is sequential, students may spend less time earning an Associate in Science Degree and/or Bachelor of Science Degree by deferring some of the university general education requirements until their Junior and Senior years and giving priority to the requirements for a major in environmental science. In addition, the earning of this degree will be evidence of achievement of technical skills which may be helpful towards the seeking of immediate employment.

Preparation for the Major:

Mathematics -- two years high school algebra plus trigonometry or Math 3 and 7 and equivalent.

Chemistry -- one year high school chemistry or Chem 12 or equivalent.

Physics -- one year high school physics or Ph 10A or equivalent.

Environmental Science students are strongly encouraged to take advantage of summer school class offerings.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biol 2A</td>
<td>4</td>
</tr>
<tr>
<td>Biol 2B</td>
<td>4</td>
</tr>
<tr>
<td>Chem 1A</td>
<td>6</td>
</tr>
<tr>
<td>Chem 1B</td>
<td>6</td>
</tr>
<tr>
<td>Econ 1</td>
<td>3</td>
</tr>
<tr>
<td>Env Sc 1</td>
<td>4</td>
</tr>
<tr>
<td>Env Sc 2</td>
<td>4</td>
</tr>
<tr>
<td>Math 25A</td>
<td>5</td>
</tr>
<tr>
<td>Math 25B</td>
<td>5</td>
</tr>
<tr>
<td>Math 25C</td>
<td>5</td>
</tr>
<tr>
<td>Ph 20A/20AL, Mechanics of Solids and Fluids/Lab</td>
<td>5</td>
</tr>
<tr>
<td>Ph 20B/20BL, Electricity and Magnetism/Lab</td>
<td>5</td>
</tr>
<tr>
<td>Total minimum units required in major area -- 56</td>
<td></td>
</tr>
</tbody>
</table>

Suggested Course Sequence:

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 1A</td>
<td>4</td>
</tr>
<tr>
<td>Econ 1</td>
<td>3</td>
</tr>
<tr>
<td>Env Sc 1</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>13</td>
</tr>
</tbody>
</table>

Third Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 2A</td>
<td>4</td>
</tr>
<tr>
<td>Math 25B</td>
<td>5</td>
</tr>
<tr>
<td>Ph 20A/20AL</td>
<td>14</td>
</tr>
</tbody>
</table>

See Degree Requirements and Transfer information section for General Education requirements.
Environmental Science Courses

ENV SC 1 -- 4 Units
Environmental Science
Class Hours: 3 lecture, 3 laboratory
This course presents the basic chemistry and physics of ecosystems. Emphasis is placed on the scientific method and natural laws in understanding energy, population, food, water, and pollution. Laboratory experiments and field trips are designed to correspond with lecture topics. Individual student projects are part of the laboratory. (Physical Science credit) Transfer credit: CSU; UC

ENV SC 2 -- 4 Units
Environment and Human Interactions
Class Hours: 3 lecture, 3 laboratory
This course introduces the biological principles governing ecosystems. An analysis of environmental problems as they relate to world demographics and human activities is also covered. Topics include: population dynamics; major world biotic communities; and the urban environment. Field study of California's major plant communities and study of the local environment will be part of the course. Basic toxicology, fundamentals, target organs, and regulations of toxic chemicals are discussed. (Biological Science credit) Transfer credit: CSU; UC

ENV SC 3 -- 3 Units
Energy Resources and Conservation
Class Hours: 24 lecture total
This course is an overall quantitative survey of current energy resources, alternate methods of energy generation and various energy conservation methods. Emphasis is placed on practical application relevant to today's economy and technology. Basic physics of energy and environmental utilization relevant to energy use are stressed. Transfer credit: CSU

ENV SC 4 -- 1.5 Units
Environmental Regulations
Class Hours: 72 laboratory total
This course introduces the students to the instrumentation used to collect and monitor environmental field data. Emphasis is placed on hands-on operation, calibration, and basic maintenance of instruments currently being utilized in industry. Sampling procedures and data collection from automatic recording devices will be addressed.

ENV SC 20 -- 3 Units
Environmental Systems
Class Hours: 2 lecture, 3 activity/laboratory
The objective of this course is to develop an understanding of the physical environment of ecosystems including: geographic formations; soils (types, textures and structure); basic rock types; elements of weather and oceanic influences, including tides and currents. This course consists of a nine-day field trip to a selected environment (e.g., deserts of Death Valley or Baja, Mexico), plus 32 hours of pre- and post-trip lectures. The field study provides first-hand experience in collecting, interpreting and reporting field data while the lecture periods provide background in the scientific method, measurements, instrumentation use, the chemistry of sea water, geologic features, rock identification, and biological indicators and adaptations. Transfer credit: CSU

ENV SC 22A/B -- .5-3/.5-3 Units
Independent Studies in Environmental Science
Prerequisite: A previous course in Environmental Science
Class Hours: .5-3 Tutorial
This course is for students who are interested in furthering their knowledge of environmental science on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.
Essential Skills

Essential Skills classes are offered to students who need specific information, abilities, and techniques to improve their chances of succeeding in all of their college classes, in the job market, and in the society. In completing the Skills Developmental Laboratory course(s), students will become prepared to undertake successfully further education and training at a college level.

Faculty

Full-Time
Patricia Dozen

Counselors
Rick Cardoni
Danita Redd Terry

Essential Skills Courses

ES 1 -- 1 Unit
Library Success Skills
Class Hours: 16 lecture total
This course is designed to teach basic library skills necessary for research, term paper development and classroom assignments. Skills taught will include use of the card catalog, periodical and newspaper indexes, basic reference sources, and how to compile a bibliography for term paper assignments. (College credit only. Does not apply toward a degree.)

The following courses are part of the supervised, self-paced, individualized Skills Development Laboratory program which uses teaching and tutorial techniques along with multimedia and computer-aided instruction. Following appropriate diagnostic testing and discussion with an instructor, enrollment in the appropriate course(s) for an appropriate number of units necessary to reach the student's goals will be recommended. Students may be enrolled in these classes at any time during a semester and, once having met the course and hourly requirements, they may receive college credit (not degree credit) based on an attendance formula. For each of the following five courses, enrollment is preceded by diagnostic assessment.

ES 2 -- 5.1-5 Units
Skills Development Laboratory - Reading
Class Hours: 24-72 laboratory total
This course provides the opportunity for intensive individualized developmental work in reading skills. Following diagnostic assessment each student will be provided with teaching and tutorial assistance in conjunction with the use of multimedia materials and computer-aided instruction in reaching his/her goals. Graded Credit/No Credit. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

ES 3 -- 5.1-5 Units
Skills Development Laboratory - Writing
Class Hours: 24-72 laboratory total
This course provides the opportunity for intensive individualized developmental work in writing skills. Following diagnostic assessment each student will be provided with teaching and tutorial assistance in conjunction with the use of multimedia materials and computer-aided instruction in reaching his/her goals. Graded Credit/No Credit. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

ES 4 -- 5.1-5 Units
Skills Development Laboratory - Mathematics
Class Hours: 24-72 laboratory total
This course provides the opportunity for intensive individualized developmental work in mathematical skills. Following diagnostic assessment each student will be provided with teaching and tutorial assistance in conjunction with the use of multimedia materials and computer-aided instruction in reaching his/her goals. Graded Credit/No Credit. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

ES 5 -- 5.1-5 Units
Skills Development Laboratory - Study Skills
Class Hours: 24-72 laboratory total
This course is designed to provide students with the basic skills and information required for a successful college academic experience. Time management and study strategies, effective listening, note taking, informal outlining, how to read texts, memory improvement principles and techniques, effective test-taking techniques, and how to reduce stress and anxiety before and during tests are but some of the study skills that will be available. Following diagnostic assessment each student will be provided with individual and group assistance in conjunction with the use of multimedia materials and computer-aided instruction in reaching his/her goals. Graded Credit/No Credit. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

ES 6 -- 5.1-5 Units
American English Pronunciation
Class Hours: 24-72 laboratory total
This course provides intensive and individualized instruction to students who aspire to form more accurate habits in English phonics. The instruction includes a simplified augmented alphabet (44 sounds) designed to assist students in the appropriate American English pronunciation. With this emphasis, students may improve spelling and heighten vocabulary. Students will improve their communication skills with peers and instructors. Graded Credit/No Credit. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

ES 10 -- 1 Unit
Pre Math 9
Class Hours: 2 lecture for 8 weeks
This course is a complete review of arithmetic with positive whole numbers. Topics covered include addition, subtraction, multiplication and division of positive whole numbers, as well as place value, rounding and estimation, factoring and order of operations. Using whole-number skills to solve real-world problems is emphasized. Using a hand-held calculator as an aid to doing arithmetic is also discussed. This course provides the opportunity to review and master the whole-number arithmetic skills that are needed for success in Math 9 - Pre-Algebra. May be taken two (2) times for credit. (College credit only. Does not apply toward a degree.)

ES 11 -- 1 Unit
Pre Math 1
Class Hours: 2 lecture for 8 weeks
This course is a concise review of the arithmetic and pre-algebra topics needed for success in algebra. Topics covered include arithmetic with fractions, decimals and signed numbers, as well as a review of such topics as percent, proportion and measurement. A brief introduction to algebra may also be included. This course is intended for the student with reasonable arithmetic skills who would like a brief but complete review of arithmetic prior to beginning a study of algebra. May be taken two (2) times for credit. (College credit only. Does not apply toward a degree.) Note: This course does not satisfy the prerequisite requirements for Math 1 - Elementary Algebra.

ES 85A -- 1 Unit
Fundamentals of Tutor Training
Class Hours: 1 lecture for 16 weeks
This institute is a general introduction to the methods of peer tutoring with emphasis on preparing students to be more effective tutors by training in tutor methodology, learning strategies and study skills. (College credit only. Does not apply toward a degree.)
Exotic Animal Training and Management

This program offers preparation for students interested in entering the expanding animal care industry. The increasing importance of zoos and wildlife education to the efforts of conservation as well as the use of animals in various entertainment fields present many career options to graduates of this curriculum.

Career Opportunities

Zoo Keeper  Animal Handler
Animal Trainer  Veterinary Assistant
Conservation/Wildlife Educator  Kennel Worker

Faculty

Full-Time  Part-Time  Counselor
James Patterson  Carole Doria  Susan Izumo
James Peddie  Nancy Hollenbeck
Gary Wilson  Cynthia Wilson  Brenda Woodhouse

Procedures for Applying to the EATM Program

The requirements, procedures, application dates and program offerings are subject to change. Consult the EATM staff or counselor for current information.

Applicants will be selected in the Spring semester for admission into the Fall classes subject to available openings.

January 31 -- EATM application, school transcripts, and three letters of recommendation from employers or teachers, must be submitted to the EATM office by this date.

April 15 -- Applicants accepted for personal interviews will be notified.

May 15 -- Notification of accepted candidates for the EATM program.

Qualifying Requirements

1. One of the following must be completed before applying to the program:
   a) High school graduation and GPA of 2.5 or
   b) General Education Development (GED) with a score of 45 and a minimum of 12 units of college with a 2.25 GPA or
   c) High school graduate with less than a 2.5 GPA and a minimum of 12 units of college with a GPA of 2.25.

   Note: Applicants may be in the process of completing above requirements at time of filing application; admission to the program will be contingent on satisfaction of requirements.

2. The following documents must be on file at the EATM Program Office at Moorpark College by January 31:
   a) All official high school and college transcripts
   b) Completed EATM program application form
   c) Three letters of recommendation from counselors, instructors, or employers other than relatives

3. An application to Moorpark College must be filed for the appropriate semester.

4. All applicants must demonstrate freedom from physical handicaps which would affect their ability to safely and satisfactorily perform the responsibilities required of all EATM students. This requires applicants to pass a physical examination administered by the College Health Center.

   It is the applicant’s responsibility to check with the EATM Program Office to see that all required documents are on file at Moorpark College.

Program Requirements

The EATM program prepares the student for positions in the animal care industry which often involves working with dangerous animals. The student works with some dangerous animals at the college facility and at other animal facilities during their course of study. Therefore, students admitted to the program are expected to strictly adhere to the rules and regulations of the program in order to ensure the safety of the students, animals, staff, and public. Furthermore, all students are expected to maintain the highest personal and ethical standards of conduct consistent with professional standards as perceived by the program staff and professional personnel at the facilities where students perform externships. Any information indicating that such standards are not maintained is subject to review by the program staff which may impose disciplinary or corrective sanctions including dismissal from the program.

For successful completion of the EATM program, a minimum grade of C is necessary in all courses required for the major. Because much of the EATM program is sequential in nature, a minimum grade of C in each required course must be obtained before continuing to the next semester. In addition, each student’s performance and conduct will be reviewed by the program staff at the conclusion of each semester to determine whether the student may proceed to the next semester.

Exotic Animal Training and Management

Occupational Associate in Science Degree

Certificate of Achievement

This program is designed to prepare students for a variety of career options in the animal industry. Entry-level positions exist in zoos, oceanariums, animal parks, government facilities, and the entertainment field. Students completing the courses required in the major receive a certificate of achievement. Students completing the additional general education requirements of the college also receive the associate degree.

Required Core Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EATM 1 Animal Diversity</td>
<td>3</td>
</tr>
<tr>
<td>EATM 2 Animal Health and Safety</td>
<td>2</td>
</tr>
<tr>
<td>EATM 3 Exotic Animal Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>EATM 4 Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>EATM 5 Zoo Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>EATM 6 Animal Anatomy/Physiology</td>
<td>2</td>
</tr>
<tr>
<td>EATM 10 Projects in EATM</td>
<td>1</td>
</tr>
<tr>
<td>EATM 11A Exotic Animal Care and Handling</td>
<td>6</td>
</tr>
<tr>
<td>EATM 11B Exotic Animal Care and Handling</td>
<td>6</td>
</tr>
<tr>
<td>EATM 13A Exotic Animal Management &amp; Supervision</td>
<td>5</td>
</tr>
<tr>
<td>EATM 13B Exotic Animal Management &amp; Supervision</td>
<td>5</td>
</tr>
<tr>
<td>EATM 15 Education &amp; Entertainment in Animal Parks</td>
<td>3</td>
</tr>
<tr>
<td>EATM 21A Exotic Animal Training</td>
<td>1</td>
</tr>
<tr>
<td>EATM 23A Elementary Veterinary Procedures</td>
<td>4</td>
</tr>
<tr>
<td>EATM 23B Elementary Veterinary Procedures</td>
<td>4</td>
</tr>
<tr>
<td>EATM 35 Animal Park Planning &amp; Administration</td>
<td>2</td>
</tr>
<tr>
<td>EATM 40A Field Experience in EATM</td>
<td>4</td>
</tr>
<tr>
<td>EATM 40B Field Experience in EATM</td>
<td>1</td>
</tr>
<tr>
<td>EATM 45 Advanced Education &amp; Entertainment in Animal Parks</td>
<td>2-2</td>
</tr>
</tbody>
</table>

HE 5 Safety and First Aid | 3 |

Required Additional Courses:

Select one of the following options:

General Exotic Animal Training and Management Option

This option is for students interested in preparing for the widest range of careers in the animal field. Students are required to complete the core curriculum plus the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EATM 15 Education &amp; Entertainment Lab</td>
<td>1</td>
</tr>
</tbody>
</table>
### Wildlife Education Option

<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>EATM 10</td>
<td>EATM 13B</td>
</tr>
<tr>
<td>EATM 13A</td>
<td>EATM 23B</td>
</tr>
<tr>
<td>EATM 21A</td>
<td>EATM 35</td>
</tr>
<tr>
<td>EATM 21L</td>
<td>EATM 45</td>
</tr>
<tr>
<td>EATM 40B</td>
<td>EATM 46</td>
</tr>
<tr>
<td>EATM 45</td>
<td>16</td>
</tr>
</tbody>
</table>

**Interim**

| EATM 40B       | 1               |

See Degree Requirements and Transfer Information section for General Education requirements.

### Exotic Animal Training and Management Courses

#### EATM 1 -- 3 Units
**Animal Diversity**

Class Hours: 3 lecture

This course is a survey of the vertebrate animals, both terrestrial and marine. Topics covered include the general characteristics, adaptations, and evolutionary history of classes and families, natural history of representative species, and basic concepts of ecology and conservation. When possible, demonstration animals will be brought into the classroom. Transfer credit: CSU

#### EATM 2 -- 2 Units
**Animal Health and Safety**

Prerequisite: Acceptance into the EATM major

Class Hours: 2 lecture

This course covers the health and safety problems of keeping animals in captivity. Students are instructed in emergency procedures, zoonotic diseases, and the care and husbandry of exotic species. The techniques of capture and restraint of animals are discussed as well as methods of transporting non-domestic animals.

#### EATM 3 -- 2 Units
**Exotic Animal Nutrition**

Prerequisite: EATM 2

Class Hours: 2 lecture

This course is designed to provide the student with a basic understanding of the nutritional needs of exotic animals in captivity as well as in the wild.

#### EATM 4 -- 3 Units
**Animal Behavior**

Class Hours: 3 lecture

This course is an introduction to the study of animal behavior with an emphasis on learning theory, especially classical and operant conditioning. It is designed to provide the student with an understanding of how to apply the concepts of ethology and behavior modification to the maintenance and training of animals in captivity. Each student will be required to train a rat (or co-numbered Psych 12). Transfer credit: CSU

#### EATM 5 -- 3 Units
**Zoohorticulture**

Prerequisite: Enrollment in EATM program

Class Hours: 2 lecture, 3 laboratory

This course is designed to provide the student with an opportunity to learn and apply skills in soil, plant growth; weed, insect and disease control; irrigation and fertilization principles; identification and uses of plants, planting and care of lawns, ground covers, flowers, trees and shrubs including proper pruning and training. Also the relationship of plants and zoo animals as it relates to the EATM facility will be stressed.

#### EATM 6 -- 3 Units
**Animal Anatomy/Physiology**

Prerequisite: Admission to EATM major

Class Hours: 3 lecture
This course will serve as an introduction to the science of veterinary medicine as it applies to non-domestic mammals, birds, reptiles, amphibians, fish, and invertebrates. The course is designed to present to the student a practical system-by-system approach to the basic structure (anatomy) and function (physiology) of the previously mentioned groups. Transfer credit: CSU

EATM 10 -- 1-3 Units
Projects in EATM
Prerequisites: EATM 1, EATM 4, EATM 11A/B
Corequisite: EATM 13A or EATM 13B
Class Hours: 3-9 laboratory
A number of projects will be offered, each with an emphasis in a different area of the animal industry. This will allow students to gain more experience in an area of particular interest. Work will consist of field experience with professionals. May be taken four (4) times for credit.

EATM 11A -- 5 Units
Exotic Animal Care and Handling
Prerequisite: Acceptance into the EATM major
Class Hours: 1 lecture, 12 laboratory
This course provides students with instruction in the maintenance of domestic and non-domestic animals in captivity. The laboratory time gives the student the opportunity to apply this knowledge to the care of the college's animal collection. Essential zoo keeping skills are developed through this "hands-on" approach.

EATM 11B -- 5 Units
Exotic Animal Care and Handling
Prerequisite: EATM 11A
Class Hours: 1 lecture, 12 laboratory
This course deals with the problems of catching and restraining animals as well as construction of animal enclosures. The student applies this knowledge while working in the college's animal facility.

EATM 13A -- 5 Units
Exotic Animal Management and Supervision
Prerequisites: EATM 1, EATM 11B
Class Hours: 1 lecture, 12 laboratory
This course explores the problems of supervising and training workers. Techniques of supervision are discussed and the student is given the opportunity to apply this knowledge in the college's animal facility. Special topics pertaining to animal management are explored.

EATM 13B -- 5 Units
Exotic Animal Management and Supervision
Prerequisite: EATM 13A
Class Hours: 1 lecture, 12 laboratory
This course deals with the problems of managing an animal facility. Techniques of management and creative problem solving are presented. Special topics pertaining to animal management are explored.

EATM 15 -- 3 Units
Education and Entertainment in Animal Parks
Prerequisite: Acceptance into the EATM major
Class Hours: 2 lecture, 3 laboratory
This course introduces the student in the techniques of interpretation as they are utilized in zoos and live animal presentations. Some of the topics covered include public speaking, program design, and the handling of animals. Public relations methods and problems of animal parks are also presented with instruction in the production of press materials and publications. Students will make presentations utilizing live animals.

EATM 15L -- 1 Unit
Education and Entertainment Laboratory
Prerequisite: EATM 15
Class Hours: 3 laboratory
The student will make use of the techniques learned in EATM 15 to perform educational and entertaining presentations using live animals.

EATM 21A -- 1 Unit
Exotic Animal Training
Prerequisites: EATM 2 and EATM 4
Class Hours: 1 lecture
Students will learn techniques for training a variety of animals through lecture. The concepts developed in other EATM courses will provide a foundation on which to build an understanding of methods applicable to particular species.

EATM 21B -- 1 Unit
Exotic Animal Training
Prerequisite: EATM 21A
Class Hours: 1 lecture
Students will learn advanced techniques for training exotic animals in a variety of specialized situations including working in front of the movie camera.

EATM 21L -- 2 Units
Exotic Animal Training Laboratory
Prerequisites: EATM 2 and EATM 4
Corequisite: EATM 21
Class Hours: 6 laboratory
The student will apply the knowledge acquired in EATM 21A to train three animals: a bird, an herbivore, and either a primate or a carnivore. With this "hands-on" approach, the student will learn the importance of proper timing and how to read the body language of animals. May be taken two (2) times for credit.

EATM 22A/B -- 1-3/1-3 Units
Independent Studies in Exotic Animal Training and Management
Prerequisite: A previous course in Exotic Animal Training and Management
Class Hours: 1-3/1-3 tutorial
This course is for students who are interested in furthering their knowledge of exotic animal training and management on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 5 units.

EATM 23A -- 4 Units
Elementary Veterinary Procedures
Prerequisite: EATM 2, EATM 3, EATM 6
Corequisite: EATM 13A
Class Hours: 3 lecture, 3 laboratory
This course serves as an introduction to the science of veterinary medicine as it applies to non-domestic animals, birds, and reptiles. It is designed to present the student with a practical system-by-system approach to the anatomy and physiology of the aforementioned groups. This is related to the various disease processes involved with these systems, with the emphasis on how to recognize such disease processes. Transfer credit: CSU

EATM 23B -- 4 Units
Elementary Veterinary Procedures
Prerequisite: EATM 23A
Corequisite: EATM 13B
Class Hours: 3 lecture, 3 laboratory
This course will build on the information and skills learned in EATM 23A. It will further the student's understanding by introducing the concepts of laboratory diagnostic aids, nursing care for exotics, disease processes and mechanisms, reproduction and newborn care, and the process of death. Special emphasis will be placed throughout this course on the practical approach to the application of the material presented. Transfer credit: CSU

EATM 26L -- 1 Unit
Nonhuman Primate Behavior Laboratory
Prerequisite: EATM 4
Class Hours: 6 laboratory for 8 weeks
This course serves as an introduction to primate behavior and its application to successful handling and training of nonhuman primates. Students will receive "hands-on" experience with primates under the direct supervision of the instructor.

EATM 35 -- 2 Units
Animal Park Planning and Administration
Prerequisite: EATM 11B
Class Hours: 2 lecture
This course deals with the operation of animal facilities beginning with planning and developing of such an operation and includes operational activities. Topics covered include personal and business financial management, business plan development, the business team, regulatory aspects, blueprint interpretation, contracts, behavioral enrichment techniques and an exposure to the successes and failures of captive bred release projects. Field trips may be required.
EATM 40A/B -- 1-3 Units
Field Experience in EATM
Prerequisite: EATM 11A
Class Hours: 48-144 laboratory total
This course provides the student with the experience of working in a zoo with a variety of animal species. Hands-on experience is provided at the Moorpark College Teaching Zoo, Los Angeles Zoo, and Santa Barbara Zoo. EATM 40A is for first-year students while EATM 40B is for second-year students. May be taken four (4) times for credit.

EATM 45 -- 2 Units
Advanced Education and Entertainment in Animal Parks
Prerequisite: EATM 15
Class Hours: 6 laboratory
The emphasis of this course is placed on actually performing with animals before all types of audiences. Each student will be assigned an animal to train and work in public shows. Students will be instructed and evaluated on their performance. Techniques of solving training problems will be discussed. May be taken two (2) times for credit.

EATM 48 -- 3 Units
Wildlife Education
Prerequisite: EATM 15
Corequisite: EATM 45
Class Hours: 2 lecture, 3 laboratory
Student will design, develop and implement wildlife education programs for audiences of various ages, cultural orientations, and developmental levels. The student will gather information on environmental and conservation issues and incorporate this material into educational presentations. May be taken two (2) times for credit.

EATM 60A-Z -- 1-3 Units
Topics in Exotic Animal Training and Management
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Exotic Animal Training and Management not covered in detail in the general Exotic Animal Training and Management course offerings. Topic courses are announced on a semester basis in the schedule of classes.
Study in the French language provides specialists to work in areas such as anthropology, economics, political science, literature, and sociology. While teaching is the principle area of employment, other careers may be found in interpreting, translating, research, diplomacy, libraries, and the publishing business.

**Career Opportunities**

<table>
<thead>
<tr>
<th>Level</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.A.</td>
<td>Foreign-Exchange Trader</td>
</tr>
<tr>
<td></td>
<td>Foreign Clerk</td>
</tr>
<tr>
<td></td>
<td>Foreign Service Officer</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Translator</td>
<td></td>
</tr>
<tr>
<td>Diplomatic</td>
<td></td>
</tr>
<tr>
<td>Tutor</td>
<td></td>
</tr>
<tr>
<td>Editor</td>
<td></td>
</tr>
</tbody>
</table>

**Faculty**

<table>
<thead>
<tr>
<th>Part-Time</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Counselor</td>
<td>Mary Martin</td>
</tr>
<tr>
<td>Sarah Cordova</td>
<td>Ofelia Romero-Motlach</td>
</tr>
<tr>
<td>Sami Dagher</td>
<td></td>
</tr>
<tr>
<td>Vega Rice</td>
<td></td>
</tr>
<tr>
<td>Howard Siegel</td>
<td></td>
</tr>
<tr>
<td>Sara Wheeler</td>
<td></td>
</tr>
</tbody>
</table>

**French Courses**

**FR 1 -- 4 Units**

*Elementary French I*

Class Hours: 4 lecture, 1 laboratory by arrangement

In this intensive study of the French language and culture, special emphasis will be given to the skills and knowledge necessary for speaking, understanding, reading and writing French and the unique nature of the people and their history. The language laboratory will be used extensively in the class and students will be expected to arrange an additional hour of language laboratory time each week. *Transfer credit: CSU; UC*

**FR 2 -- 4 Units**

*Elementary French II*

Prerequisite: Fr 1 or 2 years of high school French with grades of C or better

Class Hours: 4 lecture, 1 laboratory by arrangement

Training is given in the basic principles of grammar and pronunciation; development of the ability to understand and to express French in oral and written form; extensive use of the language laboratory. All study is in the language laboratory. *Transfer credit: CSU; UC*

**FR 3 -- 4 Units**

*Intermediate French I*

Prerequisite: Fr 2 or 3 years of high school French with grades of C or better

Class Hours: 4 lecture, 1 laboratory by arrangement

This is a further study of basic grammar and composition and development of ability to react with greater ease, with a continued emphasis on oral and written expression. All students will be expected to spend one additional hour per week in the language laboratory. *Transfer credit: CSU; UC*

**FR 4 -- 4 Units**

*Intermediate French II*

Prerequisite: Fr 3 or 4 years of high school French with an equivalent fluency

Class Hours: 4 lecture, 1 laboratory by arrangement

Grammar review and vocabulary development are emphasized in this course. Emphasis on oral and written expression continues. Study and discussions of representative literary works are carried out in French. Students are expected to spend an additional hour per week in the language laboratory. *Transfer credit: CSU; UC*

**FR 22A/B -- 1-3/1-3 Units**

*Independent Studies in French*

Prerequisite: A previous course in French

Class Hours: 1-3 tutorial

This course is for students who are interested in furthering their knowledge of French on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. *Transfer credit: CSU; UC credit limitations.*

**FR 31A -- 3 Units**

*Beginning Conversational French*

Class Hours: 3 lecture

Designed for students who wish to understand and use French in practical situations, this introductory course for nonnative speakers of French includes use of elementary grammar and principles of usage. May be taken two (2) times for credit.

**FR 31B -- 3 Units**

*Intermediate Conversational French*

Prerequisite: Fr 31A or equivalent

Class Hours: 3 lecture

This intermediate course for nonnative speakers of French includes study of grammar and principles of usage. It is designed for students who have some basic conversational French, but who wish to continue work in this area. May be taken two (2) times for credit.

**FR 60A-Z -- 1-3 Units**

*Topics in French*

Prerequisite: To be determined with each Topic

Class Hours: To be determined with each Topic

This is a special series of courses each of which deals with a specific topic in French not covered in detail in the general French course offerings. Topic courses are announced on a semester basis in the schedule of classes. *Transfer credit: CSU; UC credit limitations.*

Topics which have been developed include:

**60A -- 3 Units**

*Advanced Studies in French*

Prerequisite: FR 4

Class Hours: 3 lecture

This course is for advanced students who wish to maximize their knowledge and potential in French through individual and group writing and oral discussion based on a study of a variety of written works. May be taken two (2) times for credit.
Geography

Geography is the study of place and space; it is the description of land, sea, and air, and the distribution of plant and animal life including humans and their activities. The most rapidly increasing area of employment for people trained in geography is planning, at all levels: local, regional, and national. Education is a second major career area for geographers, while a background in geography is an asset in travel, recreation, industry, and international trade and commerce.

Career Opportunities

B.A. Level
(All careers require a bachelor’s or advanced degree)
Economic Geographer
Aerial Photo Interpreter
Research Marketing Analyst
Resource Planning Analyst
Environmental Impact Analyst
Environmental Research Assistant

Cartographer
Demographer
Regional Analyst
Political Geographer
City or County Planner

Faculty
Full-Time
Part-Time
Counselor
Gilbert Dewart
Mary Martin
Joseph Glantz
Ofelia Romero-Motlha
Christiane Mainzer
Jeffrey Meyer

Geography Courses

GEOG 1 -- 3 Units
Our Physical Environment
Class Hours: 3 lecture
This is a study of the physical elements of the landscape envelope of the earth: weather, climate, landforms, vegetation, soils, hydrography, and the effects of the earth’s interior structure. Emphasis is placed on their interrelationships which exist between people and their physical environment. Field trips will be required. Transfer credit: CSU; UC. CAN: GEOG 2

GEOG 1L -- 1 Unit
Physical Environment Lab
Prerequisite: Geog 1 (may be concurrent) or equivalent
Recommended Preparation: Ability to write sentences, descriptions and analysis
Class Hours: 3 laboratory
This laboratory to accompany Geog 1 is an introduction to earth-sun relations, elements of map and air photo reading and interpretation, practice in landscape description, measurement and analysis. Local field trips required. Transfer credit: CSU; UC

GEOG 2 -- 3 Units
Cultural Environment
Class Hours: 3 lecture
This is an introduction to the broad field of geography – its objectives, principal divisions, basic principles, and applications to present-day world problems. Students also acquire an understanding of human society in relation to the earth environment, with emphasis on the cultural elements. Urban and rural field work involved. Transfer credit: CSU; UC. CAN: GEOG 4

GEOG 4 -- 3 Units
Resource Utilization
Class Hours: 3 lecture
Covered in this course are physical and cultural factors influencing the location of economic activities; analysis of the principal economic production systems especially involved with agriculture, foodstuffs, resources and industrialization in the developed and developing world; contemporary problems of international economic power struggles. Transfer credit: CSU; UC

GEOG 5 -- 3 Units
Introduction to Meteorology
Class Hours: 3 lecture
The course is an introduction to meteorological phenomena: atmospheric circulation and behavior, clouds, precipitation, wind systems, storms, and air pollution. Interrelationships between land, ocean, and atmosphere are also covered. In addition, there is an introduction to weather instruments and their roles in reporting today’s conditions contributing to general weather conditions and aviation weather. Transfer credit: CSU; UC

GEOG 5L -- 1 Unit
Introduction to Meteorology Laboratory
Prerequisite: Geog 5 (may be concurrent) or equivalent
Class Hours: 3 laboratory
This laboratory to accompany Geog 5 is an introduction to meteorological observation, cloud identification, instrumentation, interpretation of weather charts and data, weather system identification and analysis. Field trips are required. Transfer credit: CSU; UC

GEOG 6 -- 2 Units
Map Use and Interpretation
Class Hours: 52 lecture total
This course provides an introduction to map reading, analysis, and interpretation. It includes history and practical use of maps, map projections, and aerial photography. Transfer credit: CSU; UC

GEOG 7 -- 3 Units
The Human Impact
Class Hours: 3 lecture
This course is a world survey through time of the role of humans in the modification of the natural environment, including vegetation, animal life, soils, landforms, water and atmosphere. Transfer credit: CSU; UC

GEOG 10 -- 3 Units
Geography of California
Class Hours: 3 lecture
A study of human involvement with the varied California landscape, this course includes an examination of the historical settlement, resource utilization and physical environment of the Golden State. Field trips focusing on the local land use pattern will be required. Transfer credit: CSU; UC

GEOG 22A/B -- .5-3/.5-3 Units
Independent Studies in Geography
Prerequisite: A previous course in Geography
Class Hours: 5-3 tutorial
This course is for students who are interested in furthering their knowledge of geography on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

GEOG 60A-M -- 1-3 Units
Topics in Physical Geography
Prerequisite: Prior course in Geography
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Geography not covered in detail in the general Geography course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC credit limitations.
Topics which have been developed include:

**60A -- 3 Units**  
*Volcanism and Human Activity*  
Class Hours: 3 lecture

**60B -- 3 Units**  
*Glacial Landscapes*  
Class Hours: 3 lecture

**60C -- 3 Units**  
*Regional Geomorphology*  
Class Hours: 3 lecture

**GEOG 60N-Z -- 1-3 Units**  
*Topics in Cultural Geography*  
Prerequisite: Prior course in Geography  
Class Hours: To be determined with each Topic  
This is a special series of courses each of which deals with a specific topic in Geography not covered in detail in the general Geography course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC credit limitations.

Topics which have been developed include:

**60N -- 3 Units**  
*Landscape Analysis*  
Class Hours: 3 lecture  
This course is the observation, mapping and analysis of landscapes affected by human activity. The procedures of field examination and data collection will be studied for such topics as settlement patterns, population changes and land use. Field trips required.
Geology

This program presents a study of the earth, its physical, chemical and biological forces at work.

Career Opportunities

B.S. Level
Field Geologist
Mining Geologist
Engineering Geologist
Researcher
Consultant
Librarian

Park Naturalist
Geological Technician
Technical Writer/Editor
Laboratory Research Worker
Aerogeologist
Map Editor

Faculty

Part-Time
M. Nomel Abdel-Gawad
June Anderson
Terry Davis
Gilbert Dewert
Robert Harms
Gerald Simila

Counselors
Edna Ingram
Leticia Mai
Mary Martin
Danita Redd Terry

Geology

Associate in Science Degree

This program is designed to award a designated associate degree to those students who have completed a course of specialization in Geology. These requirements were chosen by faculty to optimize students' preparation for upper-division course work for Bachelor of Science degrees in Geology offered by four-year institutions. Since the coursework in geology is sequential, students may spend less time earning an Associate in Science Degree and/or Bachelor of Science Degree by deferring some of the university general education requirements until their Junior and Senior years and giving priority to the requirements for a major in geology. In addition, the earning of this degree will be evidence of achievement of technical skills which may be helpful towards the seeking of immediate employment.

Preparation for the Major:

Mathematics -- two years high school algebra plus trigonometry or Math 3 and 7 or equivalent.
Chemistry -- one year high school chemistry or Chem 12 or equivalent.
Physics -- one year high school physics or Ph 10A or equivalent if student plans to take Ph 20A/20AL.

Geology students are strongly encouraged to take advantage of summer school class offerings.

Required Courses:

Units

Chem 1A General Chemistry I 6
Chem 1B General Chemistry II 6
Geol 2 Physical Geology 3
Geol 2L Physical Geology Lab 1
Geol 3 Earth History 3
Geol 4 Mineralogy 4
Math 15 Introductory Statistics 5
or
Math 25C Calculus with Analytic Geometry III 5
Math 25A Calculus with Analytic Geometry I 5
Math 25B Calculus with Analytic Geometry II 5
Ph 10A/10AL General Physics I/II Lab 5
or
Ph 20A/20AL Mechanics of Solids and Fluids/Lab 5
Ph 10B/10BL General Physics II/Lab 5
or
Ph 20B/20BL Electricity and Magnetism/Lab 5
Total minimum units required in major area 48

Suggested Course Sequence:

First Semester
Chem 1A 6
Geol 2 3
Geol 2L 10

Second Semester
Chem 1B 6
Math 15 or Math 25C 5

Fourth Semester
Geol 4 4
Math 26B 5
Ph 10B/10BL or Ph 20B/20BL 5

Geology Courses

GEOL 1 -- 3 Units
Introductory Geology
Class Hours: 2 lecture, 3 laboratory
This is an introductory study of the composition, structure, and modification of the earth and its physical systems. Students will learn to identify common rocks, minerals, physical processes and geologic structures working both in the lab and in the field. Transfer credit: CSU; UC

GEOL 2 -- 3 Units
Physical Geology
Class Hours: 3 lecture
This course is a study of materials and structure of the earth, origin and development of land forms, principles and processes of geology including erosion and sedimentation, volcanic, glacial and earthquake activity. Global tectonics will be used as a focus. Transfer credit: CSU; UC. Geol 2 + Geol 2L = CAN: GEOL 2

GEOL 2L -- 1 Unit
Physical Geology Lab
Corequisite: Geol 2 or equivalent
Class Hours: 3 laboratory
This is a laboratory experience developing the skills of direct observation and scientific analysis of geologic data. Class emphasizes field mapping and identification; topographic and geologic map interpretation; and laboratory and field observation and identification of geologic structures. Field trips will be required. Transfer credit: CSU; UC. Geol 2 + Geol 2L = CAN: GEOL 2

GEOL 3 -- 3 Units
Earth History
Class Hours: 3 lecture
The geologic history of the earth and evolution of life as revealed in the fossil record is studied. Elements problems in paleontology, stratigraphy, structure and geologic mapping are also included. Transfer credit: CSU; UC

GEOL 4 -- 4 Units
Mineralogy
Prerequisites: Geol 2, Geol 2L and Chem 12
Class Hours: 2 lecture, 6 laboratory
This course is a study of the principal rock-forming minerals, plus those of economic value. Crystallography, mineral chemistry, physical properties, occurrence, origin, and associations of common minerals are emphasized. Field trips may be required. Transfer credit: CSU; UC

GEOL 5 -- 3 Units
The World Ocean
Class Hours: 3 lecture
This course is an introduction to physical oceanography. The course will consider the geological, physical and chemical characteristics of the ocean. Topics to be covered include the formation of the ocean

See Degree Requirements and Transfer Information section for General Education requirements.
basins, ocean currents, waves, tides, beaches, chemistry and marine pollution. Transfer credit: CSU; UC

GEOL 21 -- 3 Units
Geology of California
Class Hours: 3 lecture
This course focuses on the geologic provinces of California including topography, structure, geologic history, lithology and mineral resources. Field trips will be required. Transfer credit: CSU; UC

GEOL 22A/B -- .5-3/.5-3 Units
Independent Studies in Geology
Prerequisite: A previous course in Geology
Class Hours: .5-3 tutorial
This course is for students who are interested in furthering their knowledge of geology on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

GEOL 41 -- 3 Units
Geology of the National Parks and Monuments
Class Hours: 3 lecture
This survey of the physical and historical geology of the national parks and monuments emphasizes western America. Field trips. Transfer credit: CSU

GEOL 51 -- 1-3 Units
Field Geology
Prerequisite: A previous course in Geology or Geog 1 or Geog 5
Class Hours: 3-9 laboratory
Course involves field studies and geologic processes as exemplified at various localities. May be taken two (2) times for credit. Transfer credit: CSU

GEOL 61 -- 3 Units
Geologic Hazards
Class Hours: 3 lecture
This study of geologic hazards applies geology to environmental problems such as landslides, earthquakes, floods, etc. Local conditions are emphasized. Field trips may be required. Transfer credit: CSU; UC
Study in the German language provides specialists to work in areas such as anthropology, economics, political science, literature, and sociology. While teaching is the principle area of employment, other careers may be found in interpreting, translating, research, diplomacy, libraries, and the publishing business.

**Career Opportunities**

<table>
<thead>
<tr>
<th>B.A. Level</th>
<th>Foreign-Exchange Trader</th>
</tr>
</thead>
<tbody>
<tr>
<td>Translator</td>
<td>Foreign Clerk</td>
</tr>
<tr>
<td>Diplomatic</td>
<td>Foreign Service Officer</td>
</tr>
<tr>
<td>Office</td>
<td></td>
</tr>
<tr>
<td>Tutor</td>
<td></td>
</tr>
<tr>
<td>Editor</td>
<td></td>
</tr>
</tbody>
</table>

**Faculty**

<table>
<thead>
<tr>
<th>Part-Time</th>
<th>Counselor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jane Chapman</td>
<td>Ofelia Romero-Motlaga</td>
</tr>
<tr>
<td>Andrea Fuchs</td>
<td></td>
</tr>
<tr>
<td>Lisa Shakoor</td>
<td></td>
</tr>
</tbody>
</table>

**German Courses**

**GER 1 -- 4 Units**

**Elementary German I**

**Class Hours:** 4 lecture, 1 laboratory by arrangement

This intensive study of the German language and culture, special emphasis will be given to the skills and knowledge necessary for speaking and writing German and the unique nature of the people and their history. The language laboratory will be used extensively in the class and students will be expected to arrange an additional hour of language lab time each week. *Transfer credit: CSU; UC*

**GER 2 -- 4 Units**

**Elementary German II**

Prerequisite: Ger 1 or 2 years of high school German or an equivalent fluency

**Class Hours:** 4 lecture, 1 laboratory by arrangement

A continued intensive study of the German language and culture, will place special emphasis on the skill and knowledge necessary for speaking and writing German and the unique nature of the people and their history. The language laboratory will be used extensively in the class, and students will be expected to arrange an additional hour of language lab time each week. *Transfer credit: CSU; UC*

**GER 3 -- 4 Units**

**Intermediate German I**

Prerequisite: Ger 2 or 3 years of high school German with grades of C or better or equivalent fluency

**Class Hours:** 4 lecture, 1 laboratory by arrangement

This first intermediate course in German provides intensive review of basic grammar with some extension and refinement of fundamentals. Reading, writing, and oral skills are further developed through the study and discussion of selected stories of the 20th Century and other literature. Other cultural aspects of Germany are introduced through the study of contemporary German youth. *Transfer credit: CSU; UC*

**GER 4 -- 4 Units**

**Intermediate German II**

Prerequisite: Ger 3 or 4 years of high school German

**Class Hours:** 4 lecture, 1 laboratory by arrangement

An advanced study of spoken and written German and of German culture, the course provides development of ability to read with greater ease by study and discussion in German of representative literary works. There will be continued emphasis on oral and written expression. All students will be expected to spend an additional hour per week in the language laboratory. *Transfer credit: CSU; UC*

**GER 22A/B -- 1-3/1-3 Units**

**Independent Studies in German**

Prerequisite: A previous course in German

**Class Hours:** 1-3 tutorial

This course is for students who are interested in furthering their knowledge of German on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. *Transfer credit: CSU; UC credit limitations.*

**GER 31A -- 3 Units**

**Beginning Conversational German**

**Class Hours:** 3 lecture

This introductory course for nonnative speakers of German includes study of elementary grammar and principles of usage and is designed for students who wish to understand and use German in practical situations such as travel in German-speaking nations. May be taken two (2) times for credit.

**GER 31B -- 3 Units**

**Intermediate Conversational German**

Prerequisite: Ger 31A or equivalent

**Class Hours:** 3 lecture

This intermediate course for nonnative speakers of German includes study of grammar and principles of usage and is designed for students who have some basic conversational German, but who wish to continue work in this area. May be taken two (2) times for credit.
Graphic Communications

The growing graphics industry offers opportunities on a wide scale to the majors in Graphic Communications. Desktop publishing, production art, graphics photography, electronic prepress, offset printing and bindery operations are some of the special areas in which employment is available. Management and operation of computer controlled equipment provide new opportunities for careers in graphics and print technology.

Career Opportunities

<table>
<thead>
<tr>
<th>Desktop Publisher</th>
<th>Stripper/Platemaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production Artist</td>
<td>Press Operator</td>
</tr>
<tr>
<td>Electronic Prepress</td>
<td>Computer Technician</td>
</tr>
<tr>
<td>Process Camera Operator</td>
<td>Sales Representative</td>
</tr>
</tbody>
</table>

Faculty

Full-Time
Sexton Stewart
Part-Time
Kerry Mehle
Diane Muscarella
Ruben Reyes
Leland Swindel

Counselors
José de la Peña
Don Henderson

Computerized Composition

Occupational

Associate in Science Degree

This program is designed to prepare the student for careers in the expanding computer graphics and composition industry. The curriculum provides emphasis on business, operational and technical skills for those students desiring to enter into sales, sales support or servicing the computer graphics industry.

Required Courses For All Options:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 10A</td>
<td>Intro to the PC and DOS</td>
</tr>
<tr>
<td>CIS 1</td>
<td>Intro to Information Systems</td>
</tr>
<tr>
<td>CIS 2A</td>
<td>CIS Introduction Lab</td>
</tr>
<tr>
<td>GC 10</td>
<td>Intro to Graphic Communications</td>
</tr>
</tbody>
</table>

Required Additional Courses:

Select one of the following options:

Sales

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 30</td>
<td>Intro to Business and Economics</td>
</tr>
<tr>
<td>Bus 35</td>
<td>Sales Techniques</td>
</tr>
<tr>
<td>Bus 36</td>
<td>Marketing</td>
</tr>
<tr>
<td>Bus 39</td>
<td>Business Communication Techniques</td>
</tr>
<tr>
<td>GC 21</td>
<td>Production Art Techniques</td>
</tr>
<tr>
<td>GC 31A</td>
<td>Process Camera</td>
</tr>
</tbody>
</table>

Application Specialist

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus 39</td>
<td>Business Communication Techniques</td>
</tr>
<tr>
<td>GC 20</td>
<td>Intro to Windows &amp; Desktop Publishing</td>
</tr>
<tr>
<td>GC 23A</td>
<td>Desktop Publishing I (IBM Compatible)</td>
</tr>
<tr>
<td>GC 23B</td>
<td>Desktop Publishing II</td>
</tr>
<tr>
<td>GC 31A</td>
<td>Process Camera</td>
</tr>
<tr>
<td>GC 41A</td>
<td>Offset Presswork/Stripping/Platemaking</td>
</tr>
</tbody>
</table>

Field Service Engineer

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 10/10L</td>
<td>Intro to Computer Science/Pascal/Lab</td>
</tr>
<tr>
<td>CS 17A/17AL</td>
<td>Computer Programming with C/Lab</td>
</tr>
<tr>
<td>EL 10/10L</td>
<td>Passive Circuits/Lab</td>
</tr>
<tr>
<td>EL 16/16L</td>
<td>Analog Circuits/Lab</td>
</tr>
<tr>
<td>EL 17/17L</td>
<td>Digital Circuits/Lab</td>
</tr>
<tr>
<td>EL 21</td>
<td>Microprocessors and Microcomputers</td>
</tr>
<tr>
<td>EL 24</td>
<td>Diagnostics, Trouble Shooting &amp; Repair</td>
</tr>
</tbody>
</table>

Printing Technology

Occupational

Associate in Science Degree

This program is designed to prepare the student for careers in the production aspects of Graphic Communications. The Printing Technology major is available for those students interested in the technical skills of producing printed communications. Emphasis will be placed on preparatory and production techniques and skills in printing technology.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC 10</td>
<td>Intro to Graphic Communications</td>
</tr>
<tr>
<td>GC 20</td>
<td>Intro to Windows &amp; Desktop Publishing</td>
</tr>
<tr>
<td>GC 21</td>
<td>Production Art Techniques</td>
</tr>
<tr>
<td>GC 23A</td>
<td>Desktop Publishing I (IBM Compatible)</td>
</tr>
<tr>
<td>GC 23B</td>
<td>Desktop Publishing II</td>
</tr>
<tr>
<td>GC 31A</td>
<td>Process Camera</td>
</tr>
<tr>
<td>GC 31B</td>
<td>Advanced Process Camera</td>
</tr>
<tr>
<td>GC 41A</td>
<td>Offset Presswork/Stripping/Platemaking</td>
</tr>
<tr>
<td>GC 41B</td>
<td>Advanced Offset Presswork</td>
</tr>
<tr>
<td>GC 50</td>
<td>Estimating and Scheduling</td>
</tr>
</tbody>
</table>

Total minimum units required in major area -- 29

See Degree Requirements and Transfer Information section for General Education requirements.

Printing Technology

Certificate of Achievement

This program prepares students for various occupations in the offset lithography industry. Emphasis is upon basic and advanced skills in preparatory and production techniques.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC 10</td>
<td>Intro to Graphic Communications</td>
</tr>
<tr>
<td>GC 20</td>
<td>Intro to Windows &amp; Desktop Publishing</td>
</tr>
<tr>
<td>GC 21</td>
<td>Production Art Techniques</td>
</tr>
<tr>
<td>GC 23A</td>
<td>Desktop Publishing I (IBM Compatible)</td>
</tr>
<tr>
<td>GC 23B</td>
<td>Desktop Publishing II</td>
</tr>
<tr>
<td>GC 31A</td>
<td>Process Camera</td>
</tr>
<tr>
<td>GC 31B</td>
<td>Advanced Process Camera</td>
</tr>
<tr>
<td>GC 41A</td>
<td>Offset Presswork/Stripping/Platemaking</td>
</tr>
<tr>
<td>GC 41B</td>
<td>Advanced Offset Presswork</td>
</tr>
<tr>
<td>GC 50</td>
<td>Estimating and Scheduling</td>
</tr>
</tbody>
</table>

Total minimum units required -- 29

Graphic Design

Occupational

Associate in Science Degree

This program is designed to prepare the student for careers in the creative aspects of Graphic Communications. An emphasis on Graphic Design is available to those students interested in the artistic or creative concepts of Graphic Communications. This option will provide practical application in design and production art for advertising and publication.

See Graphic Design Curriculum

Graphic Communications Courses

GC 10 -- 3 Units
Introduction to Graphic Communications
Class Hours: 3 lecture

This introductory course in Graphic Communications includes an overview of advertising, printing, and the history of Graphic Communications. This course will provide practical applications in design, desktop publishing, camera, and various printing processes. Students will also study employment trends and opportunities. Transfer credit: CSU

98
GC 20 -- 2 Units
Introduction to Windows & Desktop Publishing
Class Hours: 1 lecture, 3 laboratory
This course is an introduction to Windows and PageMaker on the PC platform. Topics discussed will include: graphics measuring system, typographic, proofing and editing techniques. Students will perform practical exercises working with programs within Windows as well as basic page layout and text formatting using Aldus PageMaker. Principles of Windows and desktop publishing as they relate to the printing process will be discussed. Transfer credit: CSU

GC 21 -- 3 Units
Production Art Techniques
Class Hours: 2 lecture, 3 laboratory
Students will learn mechanical applications of production art techniques for graphic reproduction. This course will cover the principles of design, design of roughs, comprehensives, camera-ready art and use of overlay materials. Electronic methods of production art will be discussed and explored. Transfer credit: CSU

GC 22A/B -- 1-3/1-3 Units
Independent Studies in Graphic Communications
Prerequisite: A previous course in Graphic Communications
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of graphic communications on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

GC 23A -- 3 Units
Desktop Publishing I (IBM Compatible)
Prerequisite: GC 20 or equivalent
Class Hours: 2 lecture, 3 laboratory
This course will introduce the student to desktop publishing using Aldus PageMaker through the Windows environment. Emphasis will be placed on the fundamentals and basic operating procedures of PageMaker. Through practical applications the student will create camera-ready documents observing the principles of layout and typography. (co-numbered BIS 23)

GC 23B -- 3 Units
Desktop Publishing II
Prerequisite: GC 23A
Class Hours: 2 lecture, 3 laboratory
This course will cover advanced techniques in the production of commercial publications including: business packages, business forms, newsletters and product sheets. Production variations will be demonstrated and discussed in the development of professional problem-solving skills. Students will be introduced to the basics of scanning including digital and off-press proofing techniques.

GC 31A -- 3 Units
Process Camera (F)
Class Hours: 2 lecture, 3 laboratory
Students learn characteristics of photographic materials, instruction, and practices in the use of a gallery camera for the production of line negatives. Course content includes instruction and practice in darkroom techniques, use of filter, contact printing, color proofing, post-visualization techniques and the diffusion transfer process. Transfer credit: CSU

GC 31B -- 3 Units
Advanced Process Camera (S)
Prerequisite: GC 31A or equivalent
Class Hours: 2 lecture, 3 laboratory
This course covers advanced theory and practice on the gallery camera emphasizing halftone photography, including retouching, duotones, dot manipulation techniques, and halftones for the PMT process. Transfer credit: CSU

GC 32 -- 3 Units
Process Camera/Color Separation (F)
Prerequisite: GC 31B or equivalent trade experience
Class Hours: 2 lecture, 3 laboratory
Course provides orientation and practice in the use of equipment, materials and techniques for color separation photography. It includes three and four color direct and indirect separations with reflection and transmission copy. Transfer credit: CSU

GC 40 -- 2 Units
Reproduction Process (S)
Prerequisites: GC 21, GRD 20A
Class Hours: 1 lecture, 3 laboratory
Basic principles and procedures of the reproduction process place emphasis upon design requirements for the printer. Instruction is given in striping, platemaking and photo-lithography including use of process and PMS inks. Students reproduce individual design projects for portfolio presentation.

GC 41A -- 3 Units
Offset Presswork/Striping/Platemaking
Class Hours: 2 lecture, 3 laboratory
Students will gain theory and practice in small lithographic press operation and stripping/platemaking procedures. Course includes instruction and operational functions of the printing units, inking units, dampening and delivery units; preparation of support for stripping, imposition and assembly; selection, care and making of representational lithographic plates. Transfer credit: CSU

GC 41B -- 3 Units
Advanced Offset Presswork
Prerequisite: GC 41A or equivalent
Class Hours: 2 lecture, 3 laboratory
This course is designed to prepare students with the skills needed for entry-level positions within the printing industry. Students will develop skills in stripping, platemaking, press operation and adjustment. Transfer credit: CSU

GC 45A -- 2 Units
Screen Printing
Class Hours: 1 lecture, 3 laboratory
This study of screen printing and its artistic and commercial application includes instruction in preparation of various screen printing stencil methods, preparation and care of screens, and use of translucent and opaque inks. Transfer credit: CSU

GC 45B -- 2 Units
Advanced Screen Printing
Prerequisite: GC 45A
Class Hours: 1 lecture, 3 laboratory
This course covers advanced extension of ideas and images utilizing photo screen printing singly or in combination with other stencil methods. Introduction to the process camera and its application to screen printing, instruction and practice in basic line photography and contact printing, emphasis in single and multicolor printing and post-visualization techniques, and further study and use of color combination transparent and opaque inks. Exploration is made into special printing on various surfaces. Transfer credit: CSU

GC 50 -- 3 Units
Estimating and Scheduling (S)
Prerequisites: GC 20, GC 31A, GC 41A
Class Hours: 3 lecture
Students learn how to establish unit costs and operational time requirements. They study catalogs and standard price lists, subcontracting overhead and profit, as well as production planning, including scheduling, routing coordination and quality control. Transfer credit: CSU
Graphic Design

The Graphic Design program is designed to prepare students for entry-level employment in advertising agencies, printing and publishing, department stores, television and motion picture studios, advertising departments of large companies, or commercial art studios. For some the training offered at Mocpark College may prepare them for a free lance career. Students will learn to draw, paint, plan, design, think two-dimensionally and three-dimensionally, and to satisfy art directors and clients.

Career Opportunities

<table>
<thead>
<tr>
<th>Advertising Artist</th>
<th>Sign Painter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illustrator</td>
<td>Silk Screen Artist</td>
</tr>
<tr>
<td>Designer</td>
<td>Sketch Artist</td>
</tr>
<tr>
<td>Graphic Artist</td>
<td>Title Designer</td>
</tr>
<tr>
<td>Mural Artist</td>
<td>Stencil Maker</td>
</tr>
<tr>
<td>Type Designer</td>
<td>Commercial Artist</td>
</tr>
<tr>
<td>Graphic Arts Technician</td>
<td>Paste-Up Camera Artist</td>
</tr>
<tr>
<td>Showcard Artist</td>
<td></td>
</tr>
</tbody>
</table>

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Gszyczewc-Gray</td>
<td>Sol Dember</td>
</tr>
<tr>
<td>Theodore Phillips</td>
<td>Nancy Haberman</td>
</tr>
<tr>
<td></td>
<td>Joseph Martin</td>
</tr>
</tbody>
</table>

Graphic Design

Occupational

Associate in Science Degree

This program is designed to prepare the student for careers in the creative aspects of Graphic Communications. An emphasis on Graphic Design is available to those students interested in the artistic or creative concepts of Graphic Communications. This option will provide practical application in design and production art for advertising and publication.

Required Courses:                  | Units
Art 4A. ... Color and Design        | 3
Art 12A. ... Drawing and Composition | 3
GC 21. ... Production Art Techniques | 3
GRD 10. ... Intro to Graphic Design | 2
GRD 20A. ... Graphic Design          | 2
GRD 20B. ... Advertising Design      | 2
GRD 21. ... Lettering and Typography | 2
GRD 30. ... Intro to Computer Graphics (Macintosh) | 3
GRD 31. ... Computer-Assisted Illustration (Macintosh) | 3
GRD 40A. ... Beginning Illustration | 3
GRD 50. ... Portfolio                | 2
Photo 1A. ... Beginning Photography  | 3
Total minimum units required in major area = 32
Recommended Courses: Art 1C, 4B, 12B, 13A/B, GC 10; GRD 40B

See Degree Requirements and Transfer Information section for General Education requirements.

Graphic Design Courses

GRD 10 -- 2 Units

Introduction to Graphic Design
Class Hours: 1 lecture, 3 laboratory

This course provides the student with experience in projects involving conceptual, production, and visual design methods. Emphasis directed toward the visual communication field (commercial art).

Transfer credit: CSU

GRD 20A -- 3 Units

Graphic Design
Prerequisite: GRD 10 or concurrent
Class Hours: 2 lecture, 3 laboratory

This course emphasizes advertising and graphic design for effective communication. Typical projects include a trademark, ad, package, cover and poster design. Transfer credit: CSU

GRD 20B -- 2 Units

Advertising Design
Prerequisite: GRD 20A
Class Hours: 1 lecture, 3 laboratory

Students gain experience in rendering, type specifications and figure indication which lead into advertising layouts and their translation into paste-up and camera-ready art. They will also learn how to execute comprehensive presentations, flat ads, packaging, point-of-sale displays, and how to develop a photographic unit. May be taken two (2) times for credit. Transfer credit: CSU

GRD 21 -- 2 Units

Lettering and Typography
Prerequisite: GRD 10 or concurrent
Class Hours: 1 lecture, 3 laboratory

Students learn basic lettering with pen and brush and construction of letters in Gothic, Roman, Italic, Script. Text and Modern type essentials underlying character form and distribution of the pages for layouts. Transfer credit: CSU

GRD 22A/B -- 1-3/1-3 Units

Independent Studies in Graphic Design
Prerequisite: A previous course in Graphic Design
Class Hours: 1-3 tutorial

This course is for students who are interested in furthering their knowledge of graphic design on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units.

GRD 30 -- 3 Units

Introduction to Computer Graphics (Macintosh)
Class Hours: 2 lecture, 3 laboratory

This course is a survey of computer graphics on the Macintosh Computer. Students will understand the Macintosh Operating System and will have hands-on experience with microprocessor applications including paint and draw programs, a word processor, a spreadsheet, and a database program.

GRD 31 -- 3 Units

Computer-Assisted Illustration (Macintosh)
Prerequisite: GRD 30 or equivalent
Class Hours: 2 lecture, 3 laboratory

This course will explore the Macintosh Computer and appropriate software as it applies to principles of design and computer illustration. Students will learn to organize visual material, including design concepts, typography, space, shape, line, and texture. Creativity will be stressed.

GRD 32 -- 3 Units

Computer Publications Design (Macintosh)
Prerequisite: GRD 30 or equivalent
Class Hours: 2 lecture, 3 laboratory

This course is a practical introduction to publications design which will provide students with the opportunity to develop the necessary expertise to produce newsletters and other publications. Students will use the Macintosh to explore informational graphics, alternatives for designing and redesigning publications with an emphasis on communicating information in the most efficient manner. Issues covered will include: software, type, graphic elements, screens, photographs, illustrations, templates, style sheets, spot color and process color separations.
Topics which have been developed include:

60A -- 1 Unit
Airbrush Practice
Prerequisite: A previous airbrush course
Class Hours: 3 laboratory
May be taken four (4) times for credit.

60D -- 1 -3 Units
Computer Graphics Practice
Prerequisites: GRD 30, GRD 31 or GRD 32
Class Hours: 3-9 laboratory
May be taken four (4) times for credit.

60E -- 3 Units
Electronic and Digital Photography
Prerequisite: A course in the discipline
Class Hours: 2 lecture, 3 laboratory
This course is a practical introduction to electronic photography and image processing. Students will use the Macintosh computer, silver halide films, electronic still cameras, and various scanning techniques to produce photographic output. May be taken two (2) times for credit. (Co-numbered Photo 60I)

60F -- 3 Units
Electronic Hypertext Publications/Macintosh
Prerequisite: GRD 30 or equivalent
Class Hours: 2 lecture, 3 laboratory
This course will explore electronic publications and interactivity using the HyperCard program on the Apple Macintosh computer. The course will include interactive techniques, creating bit-mapped graphics and photos, adding animation and sound, controlling video-disc players, visual effects, color techniques, and basic scripting.
Health Education

The objective of the Health Education major is the development and education of students in preparation for professional careers in a variety of health fields. The curricula, based upon a foundation in the liberal arts and the natural and behavioral sciences, are directed to special preparation for the various activities in the specific health fields.

Career Opportunities

(Career opportunities require bachelors or advanced degrees)

<table>
<thead>
<tr>
<th>Career</th>
<th>Degree Holder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Trainer</td>
<td>Health Officer</td>
</tr>
<tr>
<td>Hospital Administrator</td>
<td>Fitness Instructor</td>
</tr>
</tbody>
</table>

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselor</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Bittner</td>
<td>Katherine Holland-Dichter</td>
<td>Donna Proske Alyn</td>
</tr>
<tr>
<td>Ronald Halleran</td>
<td>Vance Manakas</td>
<td></td>
</tr>
<tr>
<td>Delbert Parker</td>
<td>Sandra Patterson</td>
<td></td>
</tr>
<tr>
<td>Nancy Stewart</td>
<td>George Ragsdale</td>
<td></td>
</tr>
</tbody>
</table>

Health Education Courses

The maximum credit allowed by UC system for HE 1, 2 and 7 is one course.

**HE 1 -- 2 Units**

**Health and Society**

Class Hours: 2 lecture

Focus of the course is on the nature and function of health in our society. The course is an overview of major health concepts designed to contribute to the student's understanding of healthful living. Concepts include: personal fitness; mental health and personal relationships; harmful substances; environmental health; communicable diseases; chronic and degenerative disease; reproduction and contraception; and consumer health. Transfer credit: CSU; UC credit limitations.

**HE 2 -- 2 Units**

**Women's Health**

Class Hours: 2 lecture

Focus of the course is on consideration of the nature and function of women's health in our society. An analysis is made of major female health problems designed to contribute to the student's understanding of the woman's role as an individual and contributing member of the community's efforts to implement the advances of medicine and the health sciences. Transfer credit: CSU; UC credit limitations.

**HE 4 -- .5 Unit**

**Fitness Assessment**

Class Hours: 8 lecture total

Students will use established procedures to assess their physical fitness at the beginning and end of the semester. Students will evaluate their body composition (percent body fat), strength, flexibility, cardiovascular endurance, vital capacity and nutrition. May be taken four (4) times for credit. THIS COURSE DOES NOT FULFILL THE PE/HEALTH REQUIREMENT FOR THE ASSOCIATE DEGREE.

**HE 5 -- 3 Units**

**Safety and First Aid**

Class Hours: 3 lecture

This course is to train and educate students in rendering assistance in emergency First Aid situations. Successful completion of this course qualifies the student for the American Red Cross Standard First Aid certificate and the Adult Cardiopulmonary Resuscitation card. (One person Adult CPR card) Transfer credit: CSU; UC

**HE 6 -- 3 Units**

**Prevention and Treatment of Athletic Injuries**

Class Hours: 2 lecture, 3 laboratory

This introductory course in the basic concepts and skills and practices of the athletic trainer provides training room practice, medical aspects of athletic training, athletic therapy, modalities, strength, conditioning, and rehabilitation and diagnostic techniques. Practical experience is provided in taping and for the prevention and care of the athletically injured. THIS COURSE DOES NOT FULFILL THE PE/HEALTH REQUIREMENT FOR THE ASSOCIATE DEGREE. Transfer credit: CSU; UC

**HE 7 -- 3 Units**

**Personal Health**

Class Hours: 3 lecture

This course is a study of the individual's role in developing a responsible life style for optimal health. Specific information concerning disease prevention and treatment will be covered as well as the interconnection of the mind and body as a determinant of personal health factors. Transfer credit: CSU; UC credit limitations.

**HE 10A**

**Alcohol Awareness**

Class Hours: 8 lecture total

This course will examine the physical, psychological and social effects of alcohol abuse including: history, case studies, treatment modes as well as local information and resources. Transfer credit: CSU

**HE 10B**

**AIDS Seminar**

Class Hours: 8 lecture total

Speakers and films will be used to cover this important health topic. Prevention, testing, counseling, support groups, and medical care will be discussed with an emphasis on local services. Transfer credit: CSU

**HE 10C**

**Women's Health Issues**

Class Hours: 8 lecture total

The focus of this seminar is on the nature and function of women's health. The course emphasizes the need for women to participate in their health care. The information received will help individuals become more active in making decisions in the present that will affect their future health and wellness. Transfer credit: CSU

**HE 10D**

**Weight Management**

Class Hours: 8 lecture total

This seminar will examine the causes and effects of overweight adults, including physiological, social, and cultural issues. Nutrition and exercise as a means to weight management will be covered, with an emphasis on lifestyle behavior changes. Transfer credit: CSU

**HE 10F**

**Stress Management**

Class Hours: 8 lecture total

This course will examine the physical, emotional, cognitive, and behavioral effects of stress including: sources of stress, symptoms and physiology of the stress response, burnout, effective coping strategies and induction of the relaxation response. Transfer credit: CSU

**HE 10G -- .5 Unit**

**Cardiopulmonary Resuscitation**

A course designed to teach proficiency in basic cardiopulmonary resuscitation techniques of single-person, two-persons and infant resuscitation as well as witnessed and unwitnessed blocked airway management. This emergency lifesaving procedure can be applied to individuals with cardiovascular disease, and to persons suffering sudden death due to drowning, electrocution, sensitivity reaction, asphyxia, drug overdose, heart attack and anesthetic idiosyncrasy. Early warning signs, risk factors and prevention of heart disease will also be discussed. May be taken four (4) times for credit. Transfer credit: CSU

**HE 22A/B -- 1-3/1-3 Units**

**Independent Studies in Health Education**

Prerequisite: A previous course in Health Education
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of health education on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

HE 60A-Z -- .5-3 Units
Topics in Health Education
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Health Education not covered in detail in the general Health Education course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU
A Health Science career represents excellent employment opportunities in the ever-expanding fields of health services and research.

Career Opportunities

Environmental, Occupational and Public Health
Health Care Administration
Health Science Technologies
Medical, Dental, Veterinary Professional Careers
Physical Therapy
Radiologic Technologist
Registered Nurse

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselors (HS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guadalupe Aldana</td>
<td>Patricia Burkd</td>
<td>Gail Goodman</td>
</tr>
<tr>
<td>Denise Byrne</td>
<td>Dalila Carey</td>
<td>Edna Ingram</td>
</tr>
<tr>
<td>Beatrice Epping</td>
<td>Sandra Elders</td>
<td>Mary Martin</td>
</tr>
<tr>
<td>Kimberly Hoffman</td>
<td>Janice Garcia</td>
<td></td>
</tr>
<tr>
<td>Linda Loiselle</td>
<td>Sandra Joseph</td>
<td></td>
</tr>
<tr>
<td>Jo Ann Moore</td>
<td>Soccoro Masse</td>
<td>Counselors(NS)</td>
</tr>
<tr>
<td>Brenda Shubert</td>
<td>Gary Metiaq</td>
<td>RadT</td>
</tr>
<tr>
<td></td>
<td>Christine Reixou</td>
<td>Gail Goodman</td>
</tr>
<tr>
<td></td>
<td>Susan Renteria</td>
<td>Mike Johnson</td>
</tr>
<tr>
<td></td>
<td>Julie Ann Walker</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lydia Wong</td>
<td></td>
</tr>
</tbody>
</table>

Clinical Joint Appointments

Meade Butler (Los Robles Regional Medical Center)
Karla Carsey-Rounds (Kaiser Permanente, Woodland Hills)
Donna Chivarelli (Northridge Hospital)
Albert Hermogeno (Kaiser Permanente, Panorama City)
Catherine O'Brien (Simi Valley Hospital)
J. Michael Richardson (Holy Cross Medical Center)

Transfer Information

Health Science

Major requirements for upper-division standing at:
California State University, Northridge: The Bachelor of Science in Health Science is offered with five different options, all of which require these core courses: Psych 1A; Soc 1. Additional requirements in the individual options:
1. Health Education: Biol 1; Biol 16 or Env Sc 2; Chem 12; HE 1; Math 7.
2. Environmental and Occupational Health: Biol 2A; Chem 1A, 1B or 12, 13 and 8, 9; Math 7; Micro 1; Phys 1; Ph 10A/10AL, 10B/10BL.
3. Health Administration: Biol 1; Bus 2A, 2B, 2C; Chem 12; Phys 1.
4. Physical Therapy: An 1; Biol 1; Chem 1A, 1B or 12, 13; Math 7; Phys 1; Ph 10A/10AL, 10B/10BL.
5. Nursing: An 1; Chemistry -1 course; Micro 1; Phys 1.

Nursing Science

Students wishing to apply for admission to a program leading to a Bachelor of Science or higher degree in Nursing have two options:
1. Option #1: Complete the requirements for a Moorpark College Associate Degree in Nursing with eligibility for the Registered Nurse Licensure Examination and apply for transfer to an accepting institution. This may be accomplished in two ways:
   i. A 2+2 program is designed for the Associate Degree Nursing graduate with Registered Nurse Licensure. These upper-division programs articulate with community colleges, granting 56-70 transferable units in science, general education and nursing science. In the Cal-State system the following courses may be additional requirements: separate Anatomy and Physiology courses; 1 course in U.S. History and Political Science; additional units in Humanities; 1 course in Chemistry with lab, 1 organic chemistry course.
   Some California Schools of Nursing that offer a 2+2 program for a Bachelor's in Nursing are:
   California State University: Dominguez Hills, Fresno, Hayward, Long Beach, Northridge, San Bernardino
   Mount St. Mary's University of Phoenix
   ii. A generic four-year Bachelor's Degree in Nursing program may accept a minimum number of specific science and general education transfer units for entrance into the Nursing major. Each School of Nursing differs considerably and may grant credit or allow the applicant with an Associate Degree in Nursing to challenge certain lower-division nursing courses.
   b. Option #2: Satisfy the transferable lower-division science and general education requirements and then apply to a Bachelor's Degree in Nursing program.
   The accepting institution will determine which courses completed at Moorpark College will be acceptable for transfer. Non-nursing courses generally acceptable for transfer include: An 1; Anth 2; Biol 2A/2B; Chem 1A/1B, 8, 9; Engl 1A; Micro 1; NIS 1; Ph 10A/10AL, 10B/10BL; Psych 1A/1B; Soc 1.
   Some Schools of Nursing in California that offer a generic Bachelor's or higher degrees:
   Azusa Pacific University
   Biola University
   California State University: Bakersfield, Chico, Fresno, Fullerton, Hayward, Humboldt, Long Beach, Los Angeles, Sacramento, San Bernardino, San Diego, San Francisco, San Jose, Sonoma, Stanislaus
   Mount St. Mary's Pacific Union College
   University of California, Los Angeles
   University of Southern California

Radiologic Technology

Students wishing to apply for admission to a program leading to a Bachelor's Degree in Radiologic Technology have two options:
1. Option #1: Complete the Moorpark College Associate Degree in Radiologic Technology with eligibility for licensure upon successful completion of the certification exams and apply for transfer to an accepting institution.
   California State University, Northridge's 2+2 program has articulated specific courses with Moorpark College granting transferable units in science, general education and radiologic technology courses. See the Health Science Counselor for more information.
2. Option #2: Satisfy the transferable lower-division science and general education requirements and then apply to a Bachelor's program in Radiologic Technology.
   Major requirements for upper-division standing at:
   California State University, Northridge: An 1; Biol 2A; Chem 12; Math 7; Phys 1; Ph 10A/10AL, 10B/10BL.

Preprofessional Programs: Dental, Medical, Veterinary

Moorpark College offers courses which will generally meet the basic education requirements for several professional schools. These schools require a Bachelor's Degree for admission. Students are advised to determine and satisfy specific requirements for the professional school to which they expect to apply by consulting a counselor and the school catalog.

The general lower-division course requirements for these schools commonly include: Biol 2A, 2B; Chem 1A, 1B, plus one year of organic chemistry; Math 7, (Math 25A/B recommended); Ph 10A/10AL,
10B/10BL. For veterinary school the requirements are: Biol 2A; Chem 1A, 1B; Eng1 1A, 1B; Math 15; Ph 10A/10AL; Zoo 1; (Addi-
tional lower-division Chemistry after transfer), 8 units of Human-
ties/Social Sciences.

The California dental schools are: Loma Linda University, Uni-
versity of California: Los Angeles, San Francisco, University of
Pacific, University of Southern California.

The California medical schools are: Loma Linda University, Stan-
ford University, University of California: Davis, Irvine, Los An-
geles, San Diego, San Francisco, University of Southern California.

The California veterinary school is: University of California, Davis.

Associate in Science Degrees for Career
Entry

Nursing Science -- Radiologic Technology

Application Procedure

Academic Year 1996-97

This application period is for all applicants in Health Sciences,
including request for Advanced Placement. The application period
for receipt by the Nursing/Radiography counselors of all applicant
information and transcripts is:

**Nursing**
- September 1 - October 15 -- for admission to the 1997 Spring
and Fall semesters with notification of candidates by:
  - November 15 for Spring Admission
  - February 15 for Fall Admission

**Radiography**
- February 1 - March 15 -- for admission the following Summer
session with notification of candidates by April 1.

Qualifying Requirements

Before the applicant will be considered for admission, all qual-
ifying requirements must be completed with official high school
and college transcripts on file in the Counseling Office at Moorpark
College. It is the applicant's responsibility to verify with the tran-
script clerk in the Admissions Office that official transcripts are on
file at Moorpark College prior to scheduling an application counsel-
ing interview.

1. One of the following must be completed before submission of
the application:
   a. High school graduation and GPA of 2.5 or
   b. General Education Development (GED) with a score of 45 or
      successfully pass the California High School Proficiency
      Exam (CHSPE) and a minimum of 12 college units with a
      2.25 GPA or
   c. High school graduate with less than a 2.5 GPA and a mini-
      mum of 12 units of college with a GPA of 2.25.

2. All of the following prerequisite qualifying requirements must be
   met prior to submission of the application:
   a. **Math 1** - Elementary Algebra
      Qualify for Math 3 - Intermediate Algebra or complete Math
      1 - Elementary Algebra or equivalent college course with a
      minimum grade of C.
   b. English
      Qualify for eligibility for Eng1 1A.
   c. Anatomy/Physiology
      An 1 and Phys 1 or AnPhys 1/1L or equivalent. Completion of
      a minimum 5-unit college Anatomy and Physiology course
      with a laboratory and a minimum grade of C.
   d. Additional Nursing Science prerequisite qualifying require-
      ments:
      Chemistry
      Chem 12 or equivalent. High school chemistry with minimum
      grade of C or complete a minimum 4-unit college chemistry
      course with a laboratory and a minimum grade of C.
      Microbiology
      Micro 1 or equivalent. Completion of a minimum 4-unit col-
      lage Bacteriology/Microbiology course with a laboratory and
      a minimum grade of C.
      Medical Terminology
      Although not a requirement, a course in Medical Terminol-
      ogy is highly recommended.
   e. Additional Radiologic Technology prerequisite qualifying re-
      quirements:
      Medical Terminology
      HS 19A - Beginning Medical Terminology Completion of a
      minimum 3-unit college Medical Terminology course with a
      minimum grade of C. HS 19B - Advanced Medical Terminol-
      ogy is not required, but it is recommended.
      Radiation Physics
      Ph 5/5L or Ph 10A/10AL and 10B/10BL or equivalent. Com-
      pletion of a minimum 5-unit college Radiation Physics course
      with a laboratory and a minimum grade of C. Please note:
      Ph 10A/10AL and 10B/10BL are required for transfer to Cali-
      fornia State University Northridge's Radiography Program.

3. Performance Standards

In compliance with the 1990 American with Disabilities Act, the
Health Science Department does not discriminate against quali-
fied applicants with disabilities. These performance standards, reflected in specific course-
program objectives, are to assist each applicant in determining
eligibility and the need for accommodations or modifications.
The Faculty in conjunction with the community clinical facilities
will determine, on an individual basis, whether the necessary
accommodations or modifications can reasonably be made.

a. **Critical Thinking** - ability sufficient for safe clinical judgment:
calculating, reasoning, analyzing, prioritizing, synthesizing
data. Examples: Identify cause-effect relationships in clinical
situations, develop care plans.

b. **Interpersonal** - abilities sufficient to interact with individuals,
families, and groups with diverse social, emotional, cultural,
and intellectual backgrounds: function effectively under
stress. Example: Establish rapport with diverse clients and
colleagues.

c. **Communication** - abilities sufficient for effective verbal and
written interactions. Examples: Explain diagnostic/treatment
procedures, health teaching, document and interpret actions
and client responses.

d. **Mobility** - physical abilities sufficient to move from room to
room and maneuver in small spaces and reach overhead
equipment. Examples: Move around client's rooms, equip-
ment/machines, workspaces, and diagnostic/treatment areas:
administer Emergency/CPR procedures.

e. **Motor Skills** - gross and fine motor abilities sufficient to pro-
vide safe and effective care. Examples: Calibrate, move and
use equipment/machines; lift, position and transfer clients.

f. **Hearing** - ability sufficient to monitor and assess health
needs. Examples: Hear monitor alarm, emergency signals,
asuscultatory sounds, cries for help.

g. **Visual** - ability sufficient for observation and visual assess-
ment in well lit and dimly lit areas. Examples: Observe
patient/client responses and changes in condition.

h. **Tactile** - ability sufficient for physical assessment and posi-
tioning. Examples: Perform palpation, functions of physical
examination and/or those related to intervention, e.g., inser-
tion of needle, positioning.

All interested applicants should contact the Counseling Office
for an appointment to a group Counseling Orientation Seminar for
Nursing or Radiography which is scheduled monthly.

Enrollment Process

1. Upon completion of the Qualifying Requirements and with all
offical transcripts on file at Moorpark College, the applicant is
to schedule an appointment with a Nursing/Radiography
Counselor in order to review transcripts. The applicant is to
arrive thirty minutes prior to the appointment to receive and
complete a program application.

2. All programs are impacted. Each qualified applicant will be as-
signed a number by the use of random tables. Once assigned a
priority number, that number will not change. Each class will be
selected on the basis of priority and available openings.

a. Each selected applicant must decide either to enter the
class or remove his/her name from the eligibility list. Once
the applicant's name is removed, the application process must be begun again to be considered for admission.

b. Those qualified applicants who are not selected due to limited openings must submit a Renewal of Application during the application period in order to be retained on the waiting list.

c. There will be ten alternates selected for each admission class to serve on standby for admission until the end of the first week of class. If not admitted, these alternates will be first admissions into the next class.

3. Applicants will be contacted regarding acceptance/admission by the Health Science Department by the notification date.

4. Inasmuch as space is limited in the Nursing and Radiography programs, an applicant who has failed or withdrawn from a program and whose overall record makes program completion unlikely (example: two program withdrawals), may be ineligible for admission, upon recommendation of the Admissions Committee.

Enrollment Requirements

After students have been selected by the above procedure, the following requirements must be met:

a. A Physical Exam documented on the Moorpark College Nursing and Radiography Health Appraisal form available in the Student Handbook, which considers freedom from communicable diseases and ability to function in a hospital setting.
   i. Proof of Immunity to Rubella, Mumps, Rubella, Hepatitis B, Varicela
   ii. Current immunity status VDRL.

   Evidence of physical and emotional fitness upon admission and throughout each program is expected and is subject to medical opinion of the college physician and to medical opinion or policy of hospitals or agencies used as sites.

b. Current Cardiopulmonary Resuscitation C certification, renewable every two years either HS 18 or Red Cross Certificate: CPR-C.

c. Malpractice Insurance. Paid as part of the first and third semester course registration fees.

For more information concerning these three admission requirements, refer to the Health Science Nursing or Radiography Student Handbooks available in the Moorpark College Bookstore.

Program Requirements

All students admitted to a Health Science program are expected to maintain the highest personal and ethical standards of conduct consistent with professional standards as perceived by the faculty and professional personnel in the agencies used as extended campus sites. Any information indicating that such standards are not maintained is subject to review by members of the faculty which may recommend to the college dismissal from the program.

The conviction of a felony may prohibit licensure as a Health Care professional. Each case is reviewed and determined by the appropriate California Licensing Board. The Board considers the nature and severity of the offense, subsequent acts or crimes, compliance with the sanctions and evidence of rehabilitation.

Courses are taken on campus concurrently with supervised clinical laboratory experience in selected hospitals and health care agencies. The clinical sites extend from northern Ventura County to northwestern portions of the San Fernando Valley, within an approximate 40-mile radius from Moorpark College. Each student is responsible for his or her own transportation. For successful completion of a Health Sciences program, a minimum grade of C is necessary in all courses required for the major. The student must maintain an overall GPA of 2.0 to continue in a Health Sciences program.

A materials fee is mandatory at registration for many of the Nursing and Radiography courses. The materials fees range from $9.00 to $105.00.

Advanced Placement

Opportunities for advanced placement are available to: Licensed Vocational Nurses, Limited Permit X-Ray Technicians, others with Health Care credentials and transfer students from accredited colleges or programs and readmission applicants, based on space available. Limited Permit X-Ray Technicians may be admitted to Advanced Placement Level I Spring semester after passing the RadT 1B Challenge Exam or successful completion of RadT 1B Fall semester. For others, there are several options available depending on the qualifications and needs of the applicant. Please review the Credit by Examination Policy discussed in the Academic Policies section of this catalog.

Advanced placement applicants will have access to open spaces with priority given to former Moorpark College Health Science students in good standing. Credit for courses taken at another institution will be evaluated on an individual basis. Advanced placement applicant students are not accepted or readmitted into the last semester of a Health Science program.

Graduate nurses lacking California licensure requirements may be admitted into the open spaces to complete any needed courses as specified by the California Board of Registered Nursing.

Continuing Education

After completion of 12 units in residence at Moorpark College, students who hold a current California license as a Registered Nurse or a Radiologic Technologist and are presently enrolled and in good standing at Moorpark College may petition through the Nursing/Radiography Counselor for units of credit through the appropriate Nursing/Radiography program applicable toward an A.S. degree.

Moorpark College has been approved by the Board of Registered Nursing as a Continuing Education Provider (number 02811).

The Board of Registered Nursing recognizes academic courses for continuing education credit with..."one (1) academic semester unit equaling fifteen (15) continuing education hours. The course content must be relevant to the practice of nursing and related to the scientific knowledge or technical skills required for the practice of nursing or be related to direct and/or indirect patient/client care...at a level above which is required for licensure." Examples of such courses offered at Moorpark College are: Anh 1, 2; CD 40; Foreign Languages; HS 15, NS 22A/B, 89A-Z, NIS 1, 3, 4, 5; Psych 3, 4, 5, 8, 9, 10, 11, 30; Soc 2, 4, 5, 6; Sp Ed 10A, 10B, 10C. Courses may be taken for credit/no credit or a letter grade, and a grade slip or transcript documents proof of attendance. If there is any question of approval, it is the individual's responsibility to contact the Board of Registered Nursing.

Nursing Science

Associate in Science Degree

The Associate Degree in Nursing (ADN) is intended to develop the necessary knowledge and skill basic to the functions of registered nurses in the direct care of patients.

The nursing program is accredited by the California State Board of Registered Nursing and by the National League of Nursing.

The course work required for the Associate in Science Degree in Nursing Science is as follows:

Preparation for the Nursing Major:

AnPhys 1/1L...Intro to Human Anatomy/Physiology/Lab...5
3 hrs Lec, 6 hrs Lab. (prerequisite: Biol 1 or equiv. college course)

or

An 1...General Human Anatomy: 2 hrs Lec, 6 hrs Lab...4
(prerequisite: Biol 1 or Biol 2A or equiv.)

and

Phys 1...Human Physiology: 4 hrs Lec., 3 hrs Lab...5
(prerequisites: Chem 12 or equiv. or high school chemistry and Biol 1 or Biol 2A or equiv.)

Micro 1...Principles of Microbiology: 3 hrs Lec...5
6 hrs Lab. (prerequisites: Chem 12 or equiv. or high school chemistry and a satisfactory grade in Biol 1 or Biol 2A or equiv.)

Required General Education Courses:

The remaining required courses may be taken anytime prior to the last semester of the program, but it is recommended that as many of these be completed as possible prior to entry.

Engl 1A...English Composition...3
Psych 1A...Intro to Psychology...3
Spch 1...Intro to Speech...3

Select one (1) of the following courses:

106
functions of the Radiographer in performing diagnostic x-ray procedures in hospital or other health care settings.

The radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology and by the California Department of Health. Radiography students must complete (or be enrolled in) all general education and required Radiologic Technology courses to be eligible to take the California and National Licensing Exams administered during the last semester of the program.

The course work required for the Associate in Science Degree in Radiologic Technology is as follows:

Preparation for the Radiography Major Units

AnPhys/1/1...Intro to Human Anatomy/Physiology/Lab. 3
3 hrs Lec., 6 hrs Lab. (prerequisite: Biol 1 or equiv. college course)

Ph 1...Human Physiology. 4 hrs Lec., 3 hrs Lab. (prerequisites: Chem 12 or equiv. or high school chemistry and Biol 1 or Biol 2A or equiv.)

Ph 5/5L...Radiation Physics/Lab. 3 hrs Lec., 3 hrs Lab. 4

Ph 10A/10AL...and
Ph 10B/10BL...General Physics/Lab I and II. 4 hrs Lec., 10
3 hrs Lab each. (prerequisite: Math 4A or Math 6 or Math 7 or equiv. college course, or equiv. skills which may be measured by the college assessment process)

Due to the number of units required in this program, it is recommended that as many of these courses be completed as possible prior to entry.

Engl 1A...English Composition. 3

Choose one course from each category.

Biological Science. 4

(A Biol 1 or Biol 2A or AnPh 1/1L from Ventura
College meets this requirement)

American History and Institutions. 3

Social and Behavioral Science. 3

(Psych 1A is recommended)

Fine or Performing Arts. 3

Humanities (Spch 1 is recommended). 3

Communication or Analytical Thinking. 3

(Phil 7 or 9, or Spch 7 is recommended)

Physical Education. 1-3

Computer Literacy Course. 1

(BIS 10 is recommended)

See Degree Requirements and Transfer Information section for General Education requirements.

Required Radiologic Technology Courses: Units

RadT 1A/1AL...Fundamentals of Radiographic Practice I/Fundamentals Clinical Lab I. 3/5

RadT 1B...Principles of Radiation Interaction and Radiographic Technique. 3

RadT 2A/2AL...Fundamentals of Radiographic Practice II/Fundamentals Clinical Lab II. 3/5

RadT 2B...Principles of Radiation Protection, Radiation Biology/Radiographic Technique II. 3

RadT 3A/3AL...Intermediate Radiographic Practice/Intermediate Clinical Lab. 2/8

RadT 3B...Radiographic Pathology. 3

RadT 4A/4AL...Advanced Radiographic Practice/Advanced Clinical Laboratory. 3/8

RadT 10/10L...Intro to Radiologic Technology/Intro to
Radiologic Technology Skills Lab.......................... 1.5/1
Radiography Skills Lab I.................................. 1
Radiography Skills Lab II.................................. 1
Radiography Skills Lab III.................................. 1
Radiographic Film Critique Skills Lab.......................... 1
Radiographic Summer Practicum.............................. 4.5

**Radiologic Technology Course Sequence**:  
All students must begin program Summer Session.

<table>
<thead>
<tr>
<th>Summer Session #1</th>
<th>Summer Session #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 18..................</td>
<td>RadT 49..........</td>
</tr>
<tr>
<td>(or Red Cross Certificate) CPR-C)</td>
<td></td>
</tr>
<tr>
<td>RadT 10/10L.............</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall Semester #1</th>
<th>Fall Semester #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>RadT 1A/1AL.......</td>
<td>RadT 3A/3AL.....</td>
</tr>
<tr>
<td>RadT 1B...........</td>
<td>RadT 3B.........</td>
</tr>
<tr>
<td>RadT 11...........</td>
<td>RadT 13.........</td>
</tr>
<tr>
<td>35</td>
<td>2/8</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester #1</th>
<th>Spring Semester #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>RadT 2A/2AL.........</td>
<td>RadT 4A/4AL.......</td>
</tr>
<tr>
<td>RadT 12............</td>
<td>RadT 14...........</td>
</tr>
<tr>
<td>35</td>
<td>3/8</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>12</td>
</tr>
</tbody>
</table>

*This sequence does not include the required science and general education courses.

**Health Science Courses**

**HS 15 -- 3 Units**

**Pharmacology**

Prerequisite: Admission to ADN Program or registered nurse, admission to ADRT Program or certified radiologic technologist, vocational nurse, psychiatric technician or respiratory therapist  
Class Hours: 3 lecture  
This course will provide an understanding of the mechanisms and uses of currently available drugs. It will provide a foundation of knowledge that will allow the student to understand future developments in drug therapy and allow for administering drugs more efficiently and safely. Drug information and mathematical calculations will be oriented to the clinical practice setting. The course may be repeated because yearly revisions are required to reflect the constantly changing pharmaceutical approaches and resultant implications and patient care. May be taken four (4) times for credit. Transfer credit: CSU.

**HS 15 -- .5 Unit**

**CPR-C for Health Science**

Prerequisite: Admission to ADN Program or registered nurse, admission to ADRT Program or certified radiologic technologist, vocational nurse, psychiatric technician or respiratory therapist  
Class Hours: 8 lecture total  
This course will provide basic Cardiopulmonary Resuscitation techniques of single person, two person, child and infant resuscitation. Basic techniques to relieve obstructed airway in adult, child and infant are covered. Standards required by hospitals for personnel related to emergency resuscitation procedures relative to specific disease processes and the hospital setting. Orientation to crash cart medications and protocol is included. May be taken four (4) times for credit. **THIS COURSE FULFILLS THE HEALTH GENERAL EDUCATION REQUIREMENT FOR THE A.S. DEGREE IN NURSING AND RADIOLOGIC TECHNOLOGY.**

**HS 19A -- 2 Units**

**Beginning Medical Terminology**

Class Hours: 2 lecture  
This course is intended to assist students preparing for a career in the Health Care industry to learn word-building principles for defining, using, spelling and pronouncing medical words. Phonetic pronunciations will be emphasized. Transfer credit: CSU.

**HS 19B -- 3 Units**

**Advanced Medical Terminology**

Prerequisite: HS 19A

Class Hours: 3 lecture  
This course will enable the student interested in the Health Care field to expand their knowledge of Medical Terminology. Anatomical systems are presented as well as documented health care related case studies and reports. Extensive application exercises will be reviewed. Transfer credit: CSU.

**HS 20 -- 2 Units**

**Introduction to Health Science**

Class Hours: 2 lecture  
This course introduces the student to the current status of the health care industry and to the career and employment opportunities available. Strategies for success, preparation, admission and completion of a Health Science education will be discussed. The student will have an individual assessment of aptitude and career interest. Transfer credit: CSU.

**Nursing Science Courses**

**NS 1A -- 2 Units**

**Beginning Nursing Science I**

Prerequisite: Admission to Moorpark College ADN Program  
Corequisite: NS 1A/L  
Class Hours: 4 lecture for 8 weeks  
The focus of this course is on basic nursing skills and principles; cultural diversity, and growth and development concepts will be included. Client assessment, diagnosis, intervention and evaluation will be introduced with emphasis on identifying the client's universal self-care requisites: air, water, food, elimination, activity, social and safety and normalcy throughout the life span. Clinical experience is concurrent. May be taken two (2) times for credit. Transfer credit: CSU.

**NS 1A/L -- 2 Units**

**Beginning Clinical Nursing Laboratory I**

Prerequisite: Admission to Moorpark College ADN Program  
Corequisite: NS 1A  
Class Hours: 12 clinical for 8 weeks  
This is an introductory clinical nursing laboratory experience which allows the student to apply the nursing process and basic skills and principles in the care of geriatric clients. The clinical experience is two clinical days per week. The first four weeks will be in a simulated skills laboratory learning basic nursing skills. The second four weeks will be in a skilled nursing facility. May be taken two (2) times for credit. Transfer credit: CSU.

**NS 1B -- 2 Units**

**Beginning Nursing Science II**

Prerequisite: NS 1A  
Corequisite: NS 1BL  
Class Hours: 4 lecture for 8 weeks  
This course is an introduction to the application of the nursing process as a basis for nursing practice. Emphasis is placed on assessing self-care demands or deficits, determining nursing diagnosis, and providing intervention based on beginning nursing skills through the modes of acting, teaching, guiding and supporting with follow-up evaluation. More complex nursing skills will be introduced including medication administration and physical assessment. Nutrition, pharmacology, legal/ethical aspects, bio-psycho-social-spiritual aspects, preventive, supportive, rehabilitative nursing is integrated throughout this course and the following courses in Nursing Science. Clinical experience is concurrent. May be taken two (2) times for credit. Transfer credit: CSU.

**NS 1BL -- 2 Units**

**Beginning Clinical Nursing Laboratory II**

Prerequisite: NS 1A/L  
Corequisite: NS 1B  
Class Hours: 12 clinical for 8 weeks  
This course is an introduction to a more complex clinical nursing laboratory experience which allows the student to apply the nursing process, concepts and skills. The experience is two clinical days per week in an acute care facility with the focus on care of the client throughout the life cycle. May be taken two (2) times for credit. Transfer credit: CSU.

**NS 2A -- 2.5 Units**

**Maternal Child and Gynecological Nursing**

Prerequisites: NS 1A/1AL, NS 1B/1BL or equivalent  
Corequisite: NS 2AL
NS 2AL -- 2.5 Units
Maternal Child and Gynecological Clinical Nursing Laboratory
Prerequisites: NS 1A/1AL, NS 1B/1BL or equivalent
Corequisites: NS 2A
Class Hours: 15 clinical for 8 weeks
This clinical experience provides an opportunity for the student to apply the nursing process, maternal child and gynecological concepts and skills to the obstetrical, pediatric and gynecological client in the acute care, outpatient and community setting. The clinical lab may be a day or evening or combination of both. May be taken two (2) times for credit. Transfer credit: CSU

NS 2BL -- 2.5 Units
Intermediate Nursing Science I
Prerequisites: NS 1A/1AL, NS 1B/1BL or equivalent
Corequisites: NS 2BL
Class Hours: 5 lecture for 8 weeks
This intermediate course is based on the concept of self-care and utilization of the nursing process. The focus will be on the interaction of the self-care agency, the nursing agency and the other health care team members to meet the client's self-care needs. Selected adult/elder/pediatric self-care deficits requiring intermediate nursing actions related to health promotion and deviations: muscular-skeletal, cardiac, immuno-logic, gastrointestinal, renal, cardiovascular, respiratory, and diabetes will be studied. Diagnostic measures, medical therapeutic modalities, pharmacology and medication administration, nutrition, cultural, spiritual and mental health concepts are studied. Also, nursing critical thinking and decision-making skills, legal and ethical considerations, growth and development as related to the client's therapeutic self-care demand are addressed. Clinical experience is concurrent. May be taken two (2) times for credit. Transfer credit: CSU

NS 3AL -- 2.5 Units
Intermediate Nursing Science II
Prerequisites: NS 2A/2AL, NS 2B/2BL or equivalent
Corequisites: NS 3AL
Class Hours: 5 lecture for 8 weeks
This course is a continuation of Intermediate Nursing Science I. The course stresses the self-care concept of nursing. The nursing process, the interaction of the nursing agency and the self-care agency to meet the client's self-care demands. Selected adult/geriatric, and pediatric clients with health deviations and self-care deficits related to advanced nutritional alterations, alterations in sensorimotor, physical integrity, and human functions. The focus is on medical therapeutic modalities, pharmacology and medication administration, nutrition, cultural, spiritual and mental health concepts are incorporated in this course. The role of the professional nurse in the health care delivery system, client education and ethical considerations are related to the client's therapeutic self-care demands. Diagnosic measures, medical therapeutic modalities, pharmacology and medication administration, nutrition, cultural, spiritual and mental health concepts are incorporated in this course. Also, the role of the professional nurse in the health care delivery system, client education and ethical considerations are related to the client's therapeutic self-care demands. A major focus of this course will be the development of critical thinking and problem-solving skills. Patient care management will be the primary key. Clinical experience is concurrent. May be taken two (2) times for credit. Transfer credit: CSU

NS 3A -- 2.5 Units
Intermediate Nursing Science Laboratory II
Prerequisites: NS 2A/2AL, NS 2B/2BL or equivalent
Corequisites: NS 3A
Class Hours: 15 clinical for 8 weeks
This course is an intermediate clinical laboratory which allows the student to apply the nursing process, concepts and skills identified in Nursing Science 3A. A major focus of this course will be the application of critical thinking and problem-solving skills, along with refinement of communication and interpersonal relationship skills. Patient care management will be the primary key. The clinical experience is two 7.5 hour rotations, and may be a day or evening combination in an acute care facility. May be taken two (2) times for credit. Transfer credit: CSU

NS 3B -- 2.5 Units
Psychiatric/Gerontological/Community Nursing
Prerequisites: NS 2A/2AL, NS 2B/2BL or equivalent
Corequisites: NS 3BL
Class Hours: 5 lecture for 8 weeks
This course focuses on the application of the nursing process to the client, community, family and groups with psycho-social self-care deficits across the adult-elder life span. Emphasis is placed on chronic mental and physical deficits impacting the adult-elder population. Human responses to these deficits and intervention modes -- wholly compensatory, partially compensatory, and educative/supportive are discussed relative to the client and care givers. Clinical experience is concurrent. May be taken two (2) times for credit. Transfer credit: CSU

NS 3BL -- 2.5 Units
Psychiatric/Gerontological/Community Clinical Nursing Laboratory
Prerequisites: NS 2A/2AL, NS 2B/2BL or equivalent
Corequisites: NS 3B
Class Hours: 15 clinical for 8 weeks
This clinical experience allows the student to apply the nursing process, nursing concepts and skills to adult psychiatric and gerontological clients. The clinical hours will include both day and evening rotation. The clinical setting will include acute care, community health and convalescent care. May be taken two (2) times for credit. Transfer credit: CSU

NS 4A -- 2.5 Units
Advanced Nursing Science
Prerequisites: NS 3A/3AL, NS 3B/3BL
Corequisites: NS 4A
Class Hours: 5 lecture for 8 weeks
This advanced course of nursing practice focuses on the application of the nursing process to the client with complex health deviations involving multiple systems all within the context of the family. A holistic approach of viewing the client's health functions (organic, psychological, and social) throughout the life cycle is utilized. Within the professional nursing practice importance is placed on three systems: compensatory, partially compensatory, and educative-supportive. Additional emphasis is placed on nursing judgment reflecting critical thinking, decision-making, leadership, collaboration, and teaching based on application of theory. Clinical experience is concurrent. May be taken two (2) times for credit. Transfer credit: CSU

NS 4AL -- 2.5 Units
Advanced Clinical Nursing Laboratory
Prerequisites: NS 3A/3AL, NS 3B/3BL
Corequisites: NS 4A
Class Hours: 15 clinical for 8 weeks
This is an advanced clinical laboratory which allows application of the nursing process, concepts and skills identified in Nursing Science 4A. The clinical experience involves two, 7.5 hour rotations -- which may include days, evenings, or a combination of both -- in an acute care facility providing students with experience in the intensive care unit and other specialty areas. May be taken two (2) times for credit. Transfer credit: CSU

NS 4B -- 4 Units
Preparation for Professional Practice - Preceptorship
Prerequisites: NS 4A/4AL
Class Hours: 24 lecture, 120 clinical total
To ease the transition from student to staff nurse, principles of total patient care, leadership and professionalism relevant to current nursing practice will be presented. The focus is on health care systems
and the practice of nursing including: legal and ethical issues, professional organizations, reality shock and current issues that confront nurses today. Opportunities are provided to participate as a nursing team leader and/or primary nurse in an acute care facility. The student provides care to a group of patients utilizing a Registered Nurse as a preceptor to improve clinical practice and professional skills. This COURSE FULFILLS THE HEALTH: GENERAL EDUCATION REQUIREMENT FOR THE A.S. DEGREE IN NURSING. Transfer credit: CSU.

NS 11A -- .5 Unit
Nursing Skills Laboratory
Class Hours: 3 laboratory for 8 weeks
This lab will provide an opportunity for practical application of theory content from Nursing Science 1A through simulated clinical experience, computer-assisted instruction, viewing audio-visuals, discussing case studies, and individualized instruction. The open-lab structure allows students to freely choose their attendance times. May be taken three (3) times for credit. Transfer credit: CSU.

NS 11B -- .5 Unit
Nursing Skills Laboratory
Class Hours: 3 laboratory for 8 weeks
This lab will provide an opportunity for practical application of theory content from Nursing Science 1B through simulated clinical experience, computer-assisted instruction, viewing audio-visuals, discussing case studies, and individualized instruction. The open-lab structure allows students to freely choose their attendance times. May be taken three (3) times for credit. Transfer credit: CSU.

NS 12A -- .5 Unit
Nursing Skills Laboratory
Class Hours: 3 laboratory for 8 weeks
This lab will provide an opportunity for practical application of theory content from Nursing Science 2A through simulated clinical experience, computer-assisted instruction, viewing audio-visuals, discussing case studies, and individualized instruction. The open-lab structure allows students to freely choose their attendance times. May be taken three (3) times for credit. Transfer credit: CSU.

NS 12B -- .5 Unit
Nursing Skills Laboratory
Class Hours: 3 laboratory for 8 weeks
This lab will provide an opportunity for practical application of theory content from Nursing Science 2B through simulated clinical experience, computer-assisted instruction, viewing audio-visuals, discussing case studies, and individualized instruction. The open-lab structure allows students to freely choose their attendance times. May be taken three (3) times for credit. Transfer credit: CSU.

NS 13A -- .5 Unit
Nursing Skills Laboratory
Prerequisites: NS 2B/2BL or equivalent
Class Hours: 3 laboratory for 8 weeks
This practicum will provide an opportunity for clinical application of theory content from the Nursing Science 3A course work, through simulated clinical experiences in an Intermediate Nursing Skills laboratory. The focus of the lab will be Intravenous Therapy which includes IV/PB administration. Other skills to be practiced are test taking, critical thinking, and communication. Students will have "hands-on" exposure to computers. May be taken three (3) times for credit. Transfer credit: CSU.

NS 13B -- .5 Unit
Nursing Skills Laboratory
Prerequisites: NS 2B/2BL or equivalent
Class Hours: 3 laboratory for 8 weeks
This practicum will provide an opportunity for practical application of theory content from the Nursing Science 3B course work, through simulated clinical experiences in a beginning Psychiatric/Gerontological/Community Nursing skills laboratory. May be taken three (3) times for credit. Transfer credit: CSU.

NS 14A -- .5 Unit
Nursing Skills Laboratory
Class Hours: 3 laboratory for 8 weeks
This lab will provide an opportunity for practical application of theory content from Nursing Science 4A through simulated clinical experience, computer-assisted instruction, viewing audio-visuals, discussing case studies, and individualized instruction. The open-lab structure allows students to freely choose their attendance times. May be taken three (3) times for credit. Transfer credit: CSU.

NS 22A/B -- .5/.3/.5-3 Units
Independent Studies in Nursing
Prerequisite: A previous course in Nursing Science
Class Hours: 5-3-tutorial
This course is for students who are interested in furthering their knowledge of nursing science on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 8 units. Transfer credit: CSU.

NS 48 -- 4 Units
Nursing Practicum★
Prerequisites: Successful completion of the second semester of an accredited Nursing Program; meet all hospital requirements; written verification of skills proficiency
Class Hours: 40 work experience hours for 8 weeks
This 8-week Summer Intersession course is designed to provide the intermediate nursing student with a paid practicum cooperatively planned by an employing agency and the nursing faculty. Focus is on providing practical experience in a realistic work setting in a very concentrated period of time; and classroom discussion of issues directly related to the practicum in an acute hospital setting. May be taken two (2) times for credit. Graded Credit/No Credit.

NS 50A -- 4 Units
Graduate Nurse Internship I
Prerequisites: Documentation of NCLEX completion or RN license, certification of 5 successful IV procedures, current CPR-C, current Malpractice insurance, meet all clinical facility requirements
Class Hours: 40 hours per 8 weeks
This eight week paid internshhip is designed to assist the new graduate to successfully function as a Registered Nurse. This internship, cooperatively planned by an employing agency and the nursing faculty, allows the graduate to transition to the work setting and provide nursing care to a realistic patient assignment, with clinical orientation and review of issues directly related to the work setting: legal/liability, risk management, physical assessment. Interns will be selected based on application procedure. For further information contact the Health Sciences Department. Transfer credit: CSU.

NS 50B -- 4 Units
Graduate Nurse Internship II
Prerequisites: NS 50A, Documentation of NCLEX completion or RN license, certification of 5 successful IV procedures, current CPR-C, current Malpractice insurance, meet all clinical facility requirements
Class Hours: 40 hours per 8 weeks
This course provides an additional eight week paid internship designed to assist the new graduate to function as a Registered Nurse in a leadership role and practice more complex skills. This internship, cooperatively planned by an employing agency and the nursing faculty, allows the graduate to practice leadership skills in the work setting by providing and managing nursing care; a review of clinical issues directly related to the work setting will be provided: leadership and management skills, phlebotomy, 12 lead EKG, computer documentation, communication and conflict resolution, health care economics/trends and the expanding role of the nurse, clinical pathways/discharge planning, advanced assessment, risk management, sexual harassment, physician relationship, age related assessment, violent behavior in the workplace, and peer review. Interns will be selected based on application procedure. For further information contact the Health Sciences Department. Transfer credit: CSU.

NS 60A-Z -- 1-3 Units
Topics in Nursing Science
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Nursing Science not covered in detail in the general Nursing Science course offerings. Topic courses are announced on a semester basis in the schedule of classes.

NS 89A-Z -- .5/.3 Units
Institutes in Nursing Science★
Prerequisites: Admission to ADN Program, Registered Nurse, Licensed Vocational Nurse, Psychiatric Technician
Class Hours: Variable

This is a series of special lectures and discussions on selected topics in nursing science which are not included in the Nursing Science offerings.

Radiologic Technology Courses

RadT 1A -- 3 Units
Fundamentals of Radiographic Practice I
Prerequisites: RadT 10/10L
Corequisites: RadT 1AL, RadT 1B, RadT 11
Class Hours: 3 lecture

This course will focus on routine radiographic positioning and procedures of the cardiopulmonary system, the boney thorax, the abdominal cavity, upper extremities, lower extremities and related joints. Also included will be radiographic film critique for technical and positioning errors. May be taken two (2) times for credit. Transfer credit: CSU

RadT 1AL -- 5 Units
Fundamentals Clinical Lab I
Prerequisites: RadT 10/10L
Corequisites: RadT 1A, RadT 1B, RadT 11
Class Hours: 16 laboratory

This is an introductory clinical laboratory that will provide an opportunity for practical application from RadT 1A theory and skills lab content. This lab will take place in the x-ray department of a pre-assigned clinical affiliate. May be taken two (2) times for credit. Transfer credit: CSU

RadT 1B -- 3 Units
Principles of Radiation Interaction and Radiographic Technique I
Prerequisites: RadT 10/10L
Corequisites: RadT 1A/1AL, RadT 11
Class Hours: 3 lecture

This course provides an introduction to the role of the Radiographer. A study of the function and manipulation of equipment and technical factors used in the production of x-rays and in imaging systems used within radiology. May be taken two (2) times for credit. Transfer credit: CSU

RadT 2A -- 3 Units
Fundamentals of Radiographic Practice II
Prerequisites: RadT 1A/1AL, RadT 1B
Corequisites: RadT 2A/2AL, RadT 2B, RadT 12
Class Hours: 3 lecture

This course will assist the student to focus on procedure and positioning information of the complete spinal column as well as the contrast studies of the urinary and gastrointestinal tracts. Some special attention will be given to invasive vascular procedures of these two tracts as well. May be taken two (2) times for credit. Transfer credit: CSU

RadT 2AL -- 5 Units
Fundamentals Clinical Lab II
Prerequisites: RadT 1A/1AL, RadT 1B
Corequisites: RadT 2A, RadT 2B, RadT 12

This clinical laboratory will provide an opportunity for practical application from RadT 2A theory and skills lab content. This lab will take place in an x-ray department of a pre-assigned clinical affiliate. May be taken two (2) times for credit. Transfer credit: CSU

RadT 2B -- 3 Units
Principles of Radiation Protection, Radiobiology and Radiographic Technique II
Prerequisites: RadT 1A/1AL, RadT 1B
Corequisites: RadT 2A/2AL, RadT 12
Class Hours: 3 lecture

This course provides the student Radiographer with the basic principles of radiation protection and radiobiology. It also includes problem solving, quality assurance, transformers and rectification. May be taken two (2) times for credit. Transfer credit: CSU

RadT 3A -- 2 Units
Intermediate Radiographic Practice
Prerequisites: RadT 2A/2AL, RadT 2B, RadT 49
Corequisites: RadT 3A, RadT 3B, RadT 13
Class Hours: 2 lecture

This course is a continuation of radiographic positioning. Part I will primarily focus on detailed radiography of the cranial and facial bone area. Part II will introduce the student to cerebral angiography, mammography, lymphangiography, and cinecardio-angiography. May be taken two (2) times for credit. Transfer credit: CSU

RadT 3AL -- 8 Units
Intermediate Clinical Lab
Prerequisites: RadT 2A/2AL, RadT 2B, RadT 49
Corequisites: RadT 3A, RadT 3B, RadT 13
Class Hours: 24 laboratory

This is an intermediate clinical laboratory that will provide an opportunity for practical application from RadT 3A theory and skills lab content. This lab will take place in an x-ray department of a pre-assigned clinical affiliate. May be taken two (2) times for credit. Transfer credit: CSU

RadT 3B -- 3 Units
Radiographic Pathology
Prerequisites: RadT 2A/2AL, RadT 2B, RadT 49
Corequisites: RadT 3A/3AL, RadT 13
Class Hours: 3 lecture

The purpose of this course is to introduce the advanced radiography student to various types of disease processes seen radiographically. Its intent is to incorporate previously learned clinical experiences with information in this course and use it as a base for further clinical practice. May be taken two (2) times for credit. Transfer credit: CSU

RadT 4A -- 3 Units
Advanced Radiographic Practice
Prerequisites: RadT 3A/3AL, RadT 3B
Corequisites: RadT 4A/4AL, RadT 14
Class Hours: 3 lecture

The prime focus in this course is to introduce the advanced radiography student to advanced imaging specializations in the radiation sciences, as well as complete the last segment of invasive studies in the program, especially those in the heart/vascular area. May be taken two (2) times for credit. Transfer credit: CSU

RadT 4AL -- 8 Units
Advanced Clinical Laboratory
Prerequisites: RadT 3A/3AL, RadT 3B
Corequisites: RadT 4A, RadT 14
Class Hours: 24 laboratory

This course will focus on the advanced radiography student in advanced clinical practice from materials presented in RadT 4A and as coordinated with rotation in computer tomography, magnetic resonance, ultrasound and special procedures on an observational basis. May be taken two (2) times for credit. Transfer credit: CSU

RadT 10 -- 1.5 Units
Introduction to Radiologic Technology
Prerequisite: Admission to the Radiography Program
Corequisite: RadT 10L
Class Hours: 8 lecture for 3 weeks

This course will focus on providing the new radiography students with entry-level information and skills to begin practice in a radiography department. Basically, the course will emphasize topics dealing with darkroom processing, equipment manipulation and patient care and transport. May be taken two (2) times for credit. Transfer credit: CSU

RadT 10L -- 1 Unit
Introduction to Radiologic Technology Skills Lab
Prerequisite: Admission to the Radiography Program
Corequisite: RadT 10
Class Hours: 4 laboratory for 3 weeks, the fourth week will be a 40-hour orientation to the hospital

This lab course will permit the new radiography student to participate in a simulated radiography department type setting for the first time. During this lab the student will participate in darkroom procedures, equipment manipulation, body mechanics and patient care. It will conclude with a 40-hour clinical orientation during the fourth week. May be taken two (2) times for credit. Transfer credit: CSU
RadT 11 -- 1 Unit  
Radiography Skills Lab I  
Prerequisite: RadT 10  
Corequisites: RadT 1A/1AL, RadT 1B  
Class Hours: 3 laboratory  
This practicum will provide an opportunity for practical application of theory content from RadT 1A course work through simulated clinical experiences in a radiography skills lab. Each student will practice positioning with a "mock patient" and make actual radiographs with an x-ray phantom. May be taken two (2) times for credit. Transfer credit: CSU

RadT 12 -- 1 Unit  
Radiologic Technology Skills Lab II  
Prerequisite: RadT 11  
Corequisites: RadT 2A/2AL, RadT 2B  
Class Hours: 3 laboratory  
This practicum will provide an opportunity for practical application of theory content from RadT 2A course work through simulated experiences in a radiography skills lab. Each student will practice positioning with a "mock patient" and make actual radiographs with an x-ray phantom. May be taken two (2) times for credit. Transfer credit: CSU

RadT 13 -- 1 Unit  
Radiography Skills Lab III  
Prerequisite: RadT 12  
Corequisites: RadT 3A/3AL, RadT 3B  
Class Hours: 3 laboratory  
This practicum will provide an opportunity for practical application of theory content from RadT 3A course work through simulated experiences in a radiography skills lab. Each student will practice positioning with a "mock patient" and make actual radiographs with an x-ray phantom. May be taken two (2) times for credit. Transfer credit: CSU

RadT 14 -- 1 Unit  
Radiographic Film Critique Skills Lab  
Prerequisite: RadT 13  
Corequisites: RadT 4A/4AL  
Class Hours: 3 laboratory  
The purpose of this class is to provide clinical film critique and to help correlate clinical and classroom education. The student will learn how to evaluate technical errors on radiographs, and how these errors may be avoided in the future. May be taken two (2) times for credit. Transfer credit: CSU

RadT 22A/B -- 1-3/1-3 Units  
Independent Studies in Radiography  
Prerequisite: A previous course in Radiologic Technology  
Class Hours: 1-3 tutorial  
This course is for students who are interested in furthering their knowledge of radiography on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

RadT 49 -- 4.5 Units  
Radiographic Practicum  
Prerequisites: RadT 2A/2AL, RadT 2B  
Class Hours: 40 work experience hours for 9 weeks  
This 9-week Summer Intersession course will provide clinical experience in a pre-assigned clinical affiliate. The main focus will be on the improvement of clinical skills of all previously earned materials in Level I. The student is required to complete all specified radiographic examinations. Graded Credit/No Credit. May be taken two (2) times for credit.
Career Opportunities

A Health Science career represents excellent employment opportunities in the ever-expanding fields of health services and research. The Moorpark College Health Sciences Institute (HSI) offers associate degree options for a variety of careers in health sciences:

- Career transfer associate degrees - Graduates are eligible for licensure and employment at the entry level of the profession. This degree also provides transfer to a bachelor degree professional education program. Career transfer associate degrees are offered in nursing and radiologic technology.

- Preprofessional transfer associate degrees - Graduates are prepared to transfer for a bachelor degree program preparatory to the professional education program. The Institute offers Preprofessional transfer associate degrees in: Predentistry, Premedicine, Prenursing, Preoccupational Therapy, Prepharmacy, Prephysical Therapy, Preradiologic Technology and Preveterinary Medicine.

Within the Health Science Institute, course work can also be completed for transfer programs in chiropractic medicine, physician assistant, dental hygiene, health care administration, nutrition and others. Prospective students are strongly urged to consult the HSI counselor and the catalogs of the professional and unergraduate degree programs for transfer requirements prior to enrolling for courses. Due to heavy course loads in these degree sequences, students are encouraged to take full advantage of summer sessions. For additional requirements see the Degree Requirements and Transfer Information section and consult with HSI counselors to develop a Student Education Plan. Counseling appointments and Orientation Seminars can be scheduled by calling (805) 378-1429.

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guadalupe Aldana</td>
<td>Patricia Burkard</td>
</tr>
<tr>
<td>Denise Byrne</td>
<td>Dalila Carey</td>
</tr>
<tr>
<td>Beatrice Epping</td>
<td>Janice Garcia</td>
</tr>
<tr>
<td>Clint Harper</td>
<td>Sandra Joseph</td>
</tr>
<tr>
<td>Kimberly Hoffmans</td>
<td>Gary Metelak</td>
</tr>
<tr>
<td>Linda Loiselle</td>
<td>Susan Renteria</td>
</tr>
<tr>
<td>Jo Ann Moore</td>
<td>Julie Ann Walker</td>
</tr>
<tr>
<td>Brenda Shubert</td>
<td></td>
</tr>
</tbody>
</table>

HSI Counselors, for preprofessional degrees:
Frank Bianchino
Gail Goodman
Lei/tha Mai
Danita Berry

HSI Counselors, for associate degrees in nursing and radiologic technology:
Frank Bianchino
Gail Goodman
Mike Johnson

Clinical Joint Appointments:
Meade Butler (Los Robles Regional Medical Center)
Kari Carsey-Rounds (Kaiser Permanente, Woodland Hills)
Donna Chivarelli (Northridge Hospital)
Sharon Manakas (Moorpark College Student Health Center)
Karen Rubello (Kaiser Permanente, Panorama City)
Catherine O'Brien (Simi Valley Hospital)
J. Michael Richardson (Holy Cross Medical Center)

The Health Science Institute offers four paths to prepare for the major. Each path has a core of required courses.

Path #1 includes: Predentistry, Premedicine, Prepharmacy, Preveterinary Medicine.
Path #2 includes: Prenursing, Preoccupational Therapy, Prephysical Therapy, Preradiologic Technology
Path #3 includes: Associate Degree Nursing Science - Transfer, Associate Degree Radiologic Technology - Transfer
Path #4 includes: Associate Degree Nursing, Associate Degree Radiologic Technology

Important Notes for HSI Students:
- The total required units in each major is found by adding the units of the Path Core Courses to the additional units required in the particular major.
- Courses in the major may be used to fulfill many of the general education requirements. Please see a HSI counselor for advice on course selection and additional information.
- Course work, in addition to that shown in these associate degree programs, may be needed, based on the intended four-year transfer institution and the professional school's specific requirements.
- Additional upper division course work WILL be needed after transfer.
- THE A.A. OR A.S. DEGREE REQUIRES GENERAL EDUCATION UNITS IN ADDITION TO THE MAJOR UNITS.

HSI Associate Degree Paths 1-4

<table>
<thead>
<tr>
<th>HSI Path #1 Core Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Majors within this path:</td>
</tr>
<tr>
<td>Predentistry, Premedicine, Prepharmacy, Preveterinary Medicine.</td>
</tr>
<tr>
<td>Other related career paths: Osteopathic Medicine, Podiatric Medicine, Chiropractic Medicine, Optometry.</td>
</tr>
<tr>
<td>Required Courses:</td>
</tr>
<tr>
<td>HS 20........Introduction to Health Sciences ..............................2</td>
</tr>
<tr>
<td>CHEM 1A......General Chemistry I ........................................6</td>
</tr>
<tr>
<td>CHEM 1B......General Chemistry II .........................................6</td>
</tr>
<tr>
<td>BIOL 2A......General Biology I ...........................................4</td>
</tr>
<tr>
<td>BIOL 2B......General Biology II ...........................................4</td>
</tr>
<tr>
<td>ENGL 1A......English Composition .....................................3</td>
</tr>
<tr>
<td>TOTAL 28 units</td>
</tr>
</tbody>
</table>

Recommended additional core courses: Chem 7A, Chem 7B

Preprofessional requirements: Completion of transfer General Education courses.
Make a counseling appointment by calling (805) 378-1428.

Predentistry AA Option
Add the following courses:
| MATH 7.......College Algebra and Trigonometry ................................5 |
| MATH 15......Introductory Statistics .......................................5 |
| MATH 16A.....Applied Calculus I ...........................................3 |
| PH 10A.......General Physics I .............................................4 |
| PH 10AL.....General Physics I Laboratory ................................1 |
| PH 10B.......General Physics II ............................................4 |
| PH 10BL.....General Physics II Laboratory ................................1 |
| PSYCH 1A.....Introduction to Psychology ..................................3 |
| TOTAL 26 units |

Recommended Courses:
Life Drawing, Sculpture, MATH 16B, HS 19A or HS 19B, see Path #1 recommendations.
Prenursing Option
Add the following courses:
MATH 7 College Algebra and Trigonometry 5
MATH 15 Introductory Statistics 5
MATH 16A Applied Calculus I 3
PH 10A General Physics I 1
PH 10AL General Physics I Laboratory 1
PH 10B General Physics II 4
PH 10BL General Physics II Laboratory 1
ENGL 1B Literature: Critical Thinking/Composition 3
TOTAL 26 units

Recommended Courses:
MATH 16B, PSYCH 1A, PSYCH 1B, ANPHYS 1 (or AN 1 and PHYS 1), MICRO 1, HS 19A or HS 19B, See Path #1 recommendations.

Prenursing Transfer Option
Add the following courses:
MICRO 1 Principles of Microbiology 5
CHEM 12 Introduction to Chemistry II 5
CHEM 13 Introduction to Chemistry II 5
TOTAL 15 units
*(For UCLA CHEM 1A & 1B may be substituted)
Recommended Courses: HS 15, HS19A or HS 19B, NIS 1, NIS 5, Computer Literacy Course, PSYCH 1A, PSYCH 1B, PSYCH 4, PSYCH 7, PSYCH 9, PSYCH 10.

Preoccupational Therapy Option
Add the following courses:
ENGL 1B Literature: Critical Thinking/Composition 3
ENGL 1C Critical Thinking and Composition 3
CHEM 12 Introduction to Chemistry I 5
MATH 15 Introduction to Statistics 5
PH 1 Descriptive Physics 3
PH 1L Descriptive Physics Laboratory 1
PSYCH 1A Introduction to Psychology 3
PSYCH 8 Abnormal Psychology 3
and one of the following art classes:
ART 8A Beginning Ceramics 3
ART 8A Ceramic Design 3
ART 14A Silk-Screen-Serigraph Printmaking 3
ART 23 Beginning Stained Glass Design 3
TOTAL 28-29 units

Preventative Medicine Option
Add the following courses:
MATH 7 College Algebra and Trigonometry 5
MATH 16A Applied Calculus I 3
PH 10A General Physics I 1
PH 10AL General Physics I Laboratory 1
PH 10B General Physics II 4
PH 10BL General Physics II Laboratory 1
ENGL 1B Literature: Critical Thinking/Composition 3
TOTAL 28 units

Preventative Medicine Option
Add the following courses:
MATH 7 College Algebra and Trigonometry 5
MATH 16A Applied Calculus I 3
PH 10A General Physics I 1
PH 10AL General Physics I Laboratory 1
PH 10B General Physics II 4
PH 10BL General Physics II Laboratory 1
TOTAL 18 units

Recommended courses:
MATH 16B, HS 19A or HS 19B, see Path #1 recommendations.

H.S.I. Path #2 Core Courses

** Majors within this path: Prenursing transfer, Preoccupational Therapy, Preventive Therapy, Preradiologic Technology transfer

** Other related career paths: Public Health, Dental Hygienist, Health Care Manager, Medical Records Technologist, Nutritionist, Physician Assistant, Human Performance/Exercise Science (see page 144 for details)

** HS 20 Introduction to Health Science 2
** BIOL 1 Principles of Biology 4
** MATH 7 College Algebra and Trigonometry 5
** AN 1 General Human Anatomy 4
** PHYS 1 Human Physiology 5
** ENGL 1A English Composition 3
** PSYCH 1A Introduction to Psychology 3
** SOC 01 Introduction to Sociology 3
** or ANTH 2 Cultural Anthropology 3
** SPCH 1 Introduction to Speech 3
** or SPCH 2 Elements of Public Speaking 3
TOTAL 32 units
* Must be SOC 1 for the Prephysical Therapy Option.
** Must be SPCH 2 for transfer to USC.
Required: Completion of transfer General Education courses.
Make a counseling appointment by calling (805) 378-1428.
Nursing Science AS and Transfer Option
Add the following courses:
MICRO 1........Principles of Microbiology..................5
PSYCH 1A........Introduction to Psychology................3
SOC 01........Introduction to Sociology....................3
or
ANTH 2........Cultural Anthropology......................3
SPCH 1........Introduction to Speech.......................3
Required Nursing Science courses..................................37
TOTAL 54 units

Recommended Courses:
For UCLA take: Math 25A, Chem 1A, Chem 1b, for other transfer programs take CHEM 13

Radiologic Technology AS and Transfer Option
Add the following courses:
PH 10A........General Physics I..............................4
PH 10AL.......General Physics I Laboratory................1
PH 10B........General Physics II............................4
PH 10BL.......General Physics II Laboratory................1
Required Radiologic Technology Courses..........................57
(see page xx)
TOTAL 67 units

Additional Requirements:
Computer literacy course or challenge with a grade of C or better. BIS 19 recommended (1 unit).

HSI Path #4 Core Courses

<table>
<thead>
<tr>
<th>Majors within this path: Nursing Science, Radiologic Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANPHYS 1......Intro to Human Anatomy and Physiology...........3</td>
</tr>
<tr>
<td>ANPHYS 1L.....Intro to Human Anatomy and Physiology Lab......2</td>
</tr>
<tr>
<td>ENGL 1A........English Composition................................3</td>
</tr>
<tr>
<td>TOTAL 8 units</td>
</tr>
</tbody>
</table>

Additional Requirements:
Math 1 (5 units) or qualify for Math 3
Chem 12 (5 units) or completion of high school chemistry with a grade of "C" or higher.
Completion of General Education courses.
Make a counseling appointment by calling (805) 378-1428.

Nursing Science AS Option
Add the following courses:
BIOL 1........Principles of Biology...........................4
MICRO 1........Principles of Microbiology...................5
PSYCH 1A........Introduction to Psychology................3
SOC 01........Introduction to Sociology.....................3
or
ANTH 2........Cultural Anthropology.........................3
SPCH 1........Introduction to Speech........................3
Required Nursing Science Courses..................................37
(see page 104)
TOTAL 55 units

Radiologic Technology AS Option
Add the following courses:
PH 5........Radiation Physics..................................3
PH 5L........Radiation Physics laboratory....................1
HS 19A........Beginning Medical Terminology................3
or
HS 19B........Advanced Medical Terminology................3
Required Radiologic Technology Courses..........................57
(see page 104)
TOTAL 64 units

Additional Requirements:
Computer literacy course or challenge with a grade of C or better. BIS 19 recommended (1 unit).
Study in the Hebrew language provides specialists to work in areas such as anthropology, economics, political science, literature, and sociology. While teaching is the principle area of employment, other careers may be found in interpreting, translating, research, diplomacy, libraries, and the publishing business.

Career Opportunities

B.A. Level
Translator
Diplomatic Office
Tutor
Editor

Foreign-Exchange Trader
Foreign Clerk
Foreign Service Officer

Faculty

Counselor
Ofelia Romero-Motlagh

Hebrew Courses

HEB 1 -- 4 Units
Elementary Hebrew I
Class Hours: 4 lecture, 1 laboratory by arrangement
This course introduces the essentials of grammar and vocabulary with an emphasis on reading, translating, and comprehension. Basic language forms will be reinforced through writing and conversation.
Transfer credit: CSU; UC

HEB 31A -- 3 Units
Beginning Conversational Hebrew
Class Hours: 3 lecture
This course is a basic practical course emphasizing vocabulary essentials, conversational patterns and pronunciation. It is a language-training course designed to produce proficiency in the practical aspects of using the language (Ulpan). Readings will touch on history and customs of modern Israel. May be taken two (2) times for credit.
History

History is an evolving record of human emotion, human aspiration, human frustration, and human success. Historians deal with the goals, fears, interests, opinions, and prejudices of people in the past. What made people the way they were? What is the impact of their thought and action on people today and what is their impact on people tomorrow? As a study of people, history offers both a necessary understanding of one's place in the human experience, and the conceptual framework for a lifelong avocation.

Career Opportunities

B.A. Level
(Careers require bachelors or advanced degrees)

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lobbyist</td>
<td>Program Development</td>
</tr>
<tr>
<td>Historian</td>
<td>Library Reference Worker</td>
</tr>
<tr>
<td>Politician</td>
<td>Communication Specialist</td>
</tr>
<tr>
<td>Law Clerk</td>
<td>Management Trainee</td>
</tr>
<tr>
<td>Diplomat</td>
<td>Researcher</td>
</tr>
<tr>
<td>Publicist</td>
<td>Museum Cataloger</td>
</tr>
<tr>
<td>Advertising</td>
<td>Pollster</td>
</tr>
<tr>
<td>Journalist</td>
<td>Marketing Researcher</td>
</tr>
<tr>
<td>Editor</td>
<td>Writer -- Fiction and Non-Fiction</td>
</tr>
<tr>
<td>Archivist</td>
<td></td>
</tr>
</tbody>
</table>

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Last Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel Brown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cecile Copsey</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gerald Fecht</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joseph Gonzalez</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ranford Hopkins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tomás Sanchez</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part-Time</th>
<th>Last Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Cameron</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jean Horlacher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bruce Loynd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James Morrison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Debra O'Neal</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Counselors</th>
<th>Last Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mike Johnson</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lisa Raufman</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

History Courses

HIST 1A -- 3 Units
An Introduction to Western Civilization
Class Hours: 3 lecture
The course surveys important events and developments in western civilization from prehistory through the sixteenth century, through readings and discussions of important ideas, institutions, and contributions.
Transfer credit: CSU; UC. CAN: HIST 2

HIST 1B -- 3 Units
An Introduction to Western Civilization
Class Hours: 3 lecture
This course surveys important events and developments in western civilization from the seventeenth century to modern times by means of continued readings and discussions of important ideas and institutions. Hist 1A is not a prerequisite for Hist 1B. Transfer credit: CSU; UC. CAN: HIST 4

HIST 2 -- 3 Units
From Freedom to Civil Rights
Class Hours: 3 lecture
This course is an analytical political, social, and cultural history of the African American experience during the struggle for civil rights from the era of Jim Crowism in the late Nineteenth century to the emergence of the modern Civil Rights movement and the subsequent radicalization of the movement in the 1960s and 1970s. Transfer credit: CSU; UC pending

HIST 3 -- 3 Units
African-American History
Class Hours: 3 lecture
An analysis of the history of the African-American in the United States, this course places special emphasis on contemporary implications on historical events. It points out the major roles played and contributions made by the African-Americans both collectively as a people and as specific individuals in the development of the United States of America. Transfer credit: CSU; UC

HIST 4 -- 3 Units
History of the Southwest
Class Hours: 3 lecture
This course surveys the history of the Chicanos from pre-Columbian period to the present. Emphasis will be on the Mexican settlement of the American Southwest and the contributions of the Chicanos to the development of the five Southwestern states (Arizona, California, Colorado, New Mexico, and Texas) in the context of American History. (co-numbered Ch St 4) Transfer credit: CSU; UC

HIST 5 -- 3 Units
United States History
Class Hours: 3 lecture
In this thematic and problems approach to a survey of American history, consideration is focused on the historical development of institutions and values that shape present-day America. Topics include democratic government; the use of nature; work; political and social reform; experiences of discrimination based on sex, race, and nationality; contributions of individuals and groups. Transfer credit: CSU; UC. UC transfer students planning to take more units of American History should consult with a counselor or the History Department.

HIST 6 -- 3 Units
History of the American Indian*
Class Hours: 3 lecture
A survey of the history of the indigenous peoples of the Western Hemisphere from pre-Columbian times to the present. This course places emphasis on the peoples and cultures of North America, especially as these peoples have inter-mixed and associated with mainstream Anglo-America. Transfer credit: CSU; UC

HIST 7A -- 3 Units
Social and Political History of the United States
Class Hours: 3 lecture
In this survey of the creation and development of American Society to 1865, an analysis is made of the impact of both individuals and groups, evaluation of issues of religion, race, reform, revolution, responsible government, sectionalism, and expansion. Transfer credit: CSU; UC. UC transfer students planning to take more units of American History should consult with a counselor and/or the History Department. CAN: HIST 8

HIST 7B -- 3 Units
Social and Political History of the United States
Class Hours: 3 lecture
This is an evaluation of social and political adjustment from 1865 to the present. Significant historical events and issues that affect contemporary Americans are surveyed and analyzed by examining significant individuals and groups. Such issues and events as westward expansion, industrial development, ethnic confrontations and contributions, religious toleration, social and political reform movements, and international involvements are explored. Transfer credit: CSU; UC. UC transfer students planning to take more units of American History should consult with a counselor and/or the History Department. CAN: HIST 10

HIST 8 -- 3 Units
History of California
Class Hours: 3 lecture
This is a survey of the Indian, Spanish, Mexican and American periods of California history. The political, social and cultural developments as well as the principal events in the state since 1849 are considered. Transfer credit: CSU; UC

HIST 9 -- 3 Units
Latin American History
Class Hours: 3 lecture
This course is a comprehensive survey of Latin American History focusing on the development of cultural, economic, and political factors in the various Latin American nations. Special emphasis is placed on contemporary United States-Latin American relations. Transfer credit: CSU; UC
HIST 10 – 3 Units  
**African History**  
Class Hours: 3 lecture  
This is a survey of African history with attention given to social and economic as well as political aspects of the development of indigenous cultures and the colonial experience. Transfer credit: CSU; UC

HIST 12 – 3 Units  
**History of American Women**  
Class Hours: 3 lecture  
Evaluation is made of the historical development of women's roles in American life, from early Indian cultures to 20th Century suburbia. Topics include: literary ideals, legal realities, pro and anti-feminist forces; the impact of women on national values and actions. Transfer credit: CSU; UC

HIST 14 – 3 Units  
**Ethnicity and Gender in American History**  
Class Hours: 3 lecture  
This course will survey the experiences of Native Americans, Latinos, Asian-Americans, African-Americans, and women over the span of American history. Continuity and change in the positions of these different groups will be analyzed through historical documents, films, and literature. Consideration will be given to their accomplishments and to the persistence of stereotypes. Transfer credit: CSU; UC

HIST 15 – 3 Units  
**Asia: The Rise of Eastern Civilization**  
Class Hours: 3 lecture  
In this survey of early Eastern civilization from antiquity to the time of the coming of the West, consideration is given to geographical aspects, the rise of civilizations, and the development of the Chinese and Japanese Empires. Transfer credit: CSU; UC

HIST 16 – 3 Units  
**Asia in the Modern World**  
Class Hours: 3 lecture  
A survey of Eastern civilization covering cultural, social and political aspects from the time of the initial impact of Western travel and colonialism to the present, this course also includes a review of the wars in Vietnam and Indochina. Particular attention is given developments in China, Japan, Korea, Indochina, and the Indian Subcontinent. Transfer credit: CSU; UC

HIST 22A/B – 1-3/1-3 Units  
**Independent Studies in History**  
Prerequisite: A previous course in History  
Class Hours: 1-3 tutorial  
This course is for students who are interested in furthering their knowledge of history on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

HIST 60A-Z – 1-3 Units  
**Topics in History**  
Prerequisite: To be determined with each Topic  
Class Hours: To be determined with each Topic  
This is a special series of courses each of which deals with a specific topic in history not covered in detail in the general history course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC credit limitations.

Topics which have been developed include:

**60C – 3 Units**  
**World War II - The World at War**  
Prerequisite: A previous course in history  
Class Hours: 3 lecture  
This course is an in-depth study of the most cataclysmic and important event in our time. World War II was truly a global conflict, affecting our society even today.

**60D – 3 Units**  
**World War I - The Great War**  
Prerequisite: A previous course in history  
Class Hours: 3 lecture  
World War I is still regarded as "The Great War" by Europeans. Given the experience of World War II, this historical judgment demands greater understanding so the course is designed to reflect the special status of The Great War as the catalyst for the rest of the twentieth century.

**60E – 3 Units**  
**Modern England**  
Prerequisite: A previous course in History  
Class Hours: 3 lecture  
The course examines England in its age of greatness, and most recently, in its time of decline. Particular attention will be paid to Victorian England, the industrial revolution, the world wars, the welfare state, and the Anglo-American partnership.

**60F – 3 Units**  
**The World Since 1945**  
Prerequisite: A previous course in History  
Class Hours: 3 lecture  
Traditional western civilization courses usually do not progress much past World War II. The purpose of this course is to fill in this substantial and important gap for modern students.

**60G – 3 Units**  
**Modern Germany**  
Prerequisite: A previous course in History  
Class Hours: 3 lecture  
This course is a political and cultural history of Germany during the last 100 years. Major topics include the creation and structure of the German Empire, World War I, the Weimar Republic, Hitler and National Socialism, World War II, and the division of Germany since '45.

**60H – 3 Units**  
**History of the Jewish People**  
Class Hours: 3 lecture  
This course traces the great ages and ideas of the Jewish people with a view to providing insight into the character and nature of the contemporary Jewish experience. A central focus will be on the unique features of Jewish history as time, depth and geographical span, as well as the significance of the experience of a people moving through many cultures and many lands.

**60J – 3 Units**  
**Modern Russia**  
Class Hours: 3 lecture  
This course is a political and cultural history of Russia in the 20th Century. Initial topics include the First World War, Lenin and the Communist Revolution of 1917, Stalin's domestic and foreign policies, and the Second World War; the latter part of the course will focus on the Cold War and East-West relations up to the present and on Soviet society today.

**60T – 3 Units**  
**Historic Site Evaluation**  
Prerequisite: A previous or concurrent course in History  
Class Hours: 3 lecture  
This course covers the methodology of historic site evaluation and interpretation. It includes on-site evaluation of Federal, State, and local historic sites, buildings, museums, parks, etc.

**60V – 3 Units**  
**The Vietnam War**  
Class Hours: 3 lecture  
This course examines the circumstances that led to the American involvement in Vietnam, what happened during that involvement, and what the consequences have been. A variety of literary and filmic materials will aid students as they study this material from the perspectives of history, psychology, and popular culture. (co-numbered Hum 60V, Psych 60V)

*These courses are offered periodically.*
This is an area of specially-designed courses that offer a broad-based understanding of literature, history, philosophy, art and contemporary issues and trends.

Faculty
Full-Time
John Davie
Hugo Ekback
Gerald Fecht
Carole Ginet
Anne Kairischner
Linda Moore
Counselors
Don Henderson
Mary Martin

Humanities Courses

HUM 1 -- 6 Units
The Individual and Society
Class Hours: 6 lecture
This team-taught interdisciplinary course is designed to increase student's knowledge and understanding of the world in which they live. Through an analysis of history and social issues, students will learn about the accomplishments of people who have shaped civilization and its institutions. In the process, students will develop an awareness of the responsibility each of us has to preserve and, as needed, to improve our society. This course will place special emphasis on developing writing skills. Transfer credit: CSU

HUM 2 -- 6 Units
The Individual and the Arts
Class Hours: 6 lecture
This team-taught interdisciplinary course is designed to increase students' knowledge and understanding of the world in which they live. Through an examination of the nature of creativity and an analysis of major art forms, students will learn about the ways in which society shapes and has been shaped by art and artists. In the process, students will develop an awareness and appreciation for diversity among people and the arts. This course will place special emphasis on improving writing skills. Transfer credit: CSU

HUM 3 -- 3 Units
History of the Motion Picture
Class Hours: 3 lecture
This is an historical and critical survey of world cinema from the beginnings to WW II. Transfer credit: CSU; UC

HUM 4 -- 3 Units
Main Currents in Modern Film
Class Hours: 3 lecture
This is an historical and critical survey of world cinema from WW II to the present. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with HUM 6

HUM 5 -- 3 Units
Contemporary Foreign Film
Class Hours: 3 lecture
This course will focus on contemporary foreign cinema. It will pay special attention to the work of important directors and the production systems within which they work. Students will study the genre, themes, and styles of various national cinemas. May be taken two (2) times for credit. Transfer credit: CSU; UC

HUM 6 -- 3 Units
Contemporary Film
Class Hours: 3 lecture
This contemporary films class will emphasize the works of American filmmakers and examine their special themes, filming techniques and genre specifications (epic, psychological drama, comedy, etc.). Transfer credit: CSU; UC maximum credit allowed -- one course if combined with HUM 4

HUM 10A -- 3 Units
Ethics, Culture and the Arts: The Roots of Humanities
Class Hours: 3 lecture
The development of an understanding and appreciation of human's cultural heritage from the earliest times to approximately 1500 is emphasized. Students will survey the major ideas of several periods in the beginnings of western civilization by an examination of the literature, philosophy, music, painting, and sculpture of each era. Special attention will be paid to the ethical choices and aesthetic responses possible to men and women within each period. Transfer credit: CSU; UC

HUM 10B -- 3 Units
Ethics, Culture and the Arts: Humanities and the Modern World
Class Hours: 3 lecture
The development of an understanding and appreciation of human's cultural heritage from 1500 to the present day is emphasized. Students will survey the major ideas of several periods of western civilization from the Renaissance to the modern world by an examination of the literature, philosophy, music, painting, architecture, and sculpture of each era. Special attention will be paid to the ethical choices and aesthetic responses possible to men and women within each period. Transfer credit: CSU; UC

HUM 18 -- 3 Units
Images of Women in Film
Class Hours: 3 lecture
This is a psycho-social survey of the stereotypes of women communicated through roles, myths and special personalities in motion pictures. The approach will be through the analysis of individual filmmakers, audience demands, censorship and cultural movements. The course will contrast the cinematic image with the actual status of women in an attempt to explore the relationship between reality and the impact of the media. Transfer credit: CSU; UC

HUM 19 -- 3 Units
Women in Contemporary Society
Class Hours: 3 lecture
This course will examine the concerns, conflicts and rewards of women in today's society where their roles and opportunities are in the process of change. Increased awareness and fulfillment of individual potential will be emphasized through lecture, discussions, films and reading. Transfer credit: CSU; UC

HUM 22A/B -- 1-3/1-3 Units
Independent Studies in Humanities
Prerequisite: A previous course in Humanities
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of humanities on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

HUM 42 -- 3 Units
Business and Society
Class Hours: 3 lecture
This course explores important issues including corporate responsibility, career/job satisfaction, ethics in the workplace, technological change and environmental health concerns. Specific readings from modern literature and analysis of relevant art and film production will be used to study the course topics. (Co-numbered Bus 42) Transfer credit: CSU

HUM 60A-Z -- 1-6 Units
Topics in the Humanities
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Humanities not covered in detail in the general Humanities course offerings. Topic courses are announced on a semester
basis in the schedule of classes. Transfer credit: CSU; UC credit limitations.

Topics which have been developed include:

**60A -- 1.5 Units**
**The Reel View: The Fifties**
Class Hours: 3 lecture for 8 weeks
This course will study the content and form of cinema of the fifties by comparing the "real" images of those years with their societal realities and values.

**60B -- 1.5 Units**
**The Reel View: The Sixties**
Class Hours: 3 lecture for 8 weeks
This course will study the content and form of cinema of the sixties by comparing the "real" images of those years with their societal realities and values.

**60I -- 1.5 Units**
**The Reel View of Real Life (The Documentary)**
Class Hours: 3 lecture for 8 weeks
Selected documentary films will be analyzed and studied in relation to the content and styles of individual filmmakers.

**60V -- 3 Units**
**The Vietnam War**
Class Hours: 3 lecture
This course examines the circumstances that led to the American involvement in Vietnam, what happened during that involvement, and what the consequences have been. A variety of literary and filmic materials will aid students as they study this material from the perspectives of history, psychology, and popular culture. (co-numbered Hist 60V, Psych 60V)
Interior Design

This program has been developed to prepare students for careers in various areas of home and business design. Students will receive training in specific skills commonly used by Interior Designers.

Career Opportunities

Display Designer
Interior Designer
Furniture Buyer
Professional Shopper

Color Consultant
Sales Representative
Lighting Consultant

Faculty
Part-Time
Sharon Anderson
Janis Gerry
Allan Wesley

Counselor
José de la Peña

Interior Design

Occupational Associate in Science Degree

The Interior Design program has been developed to prepare students for careers in various areas of home and business improvement. Students can prepare for careers as display designer, space planner, furniture buyer, and sales representatives for retail organizations.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 2</td>
<td>Art Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>Art 4A</td>
<td>Color and Design</td>
<td>3</td>
</tr>
<tr>
<td>Bus 32</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>DT 31</td>
<td>Interior Design Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ID 5</td>
<td>Beginning Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID 6</td>
<td>Materials and Installations</td>
<td>3</td>
</tr>
<tr>
<td>ID 7</td>
<td>Space Planning</td>
<td>3</td>
</tr>
<tr>
<td>ID 8</td>
<td>Advanced Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID 9</td>
<td>Interior Design Graphics and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>ID 31</td>
<td>Textiles</td>
<td>3</td>
</tr>
</tbody>
</table>

General Education Courses ........................................................................... 24

Total required units in major -- 54-24 (GE) = 30

Recommended Courses: Bus 35; DT 2A

Suggested Course Sequence:

First Semester

Art 2 ............................................ 3
DT 31 ............................................ 3
ID 5 ............................................ 3
ID 6 ............................................ 3
General Education ............................................ 3

15

Second Semester

Art 4A ............................................ 3
ID 31 ............................................ 3
General Education ............................................ 3

15

Third Semester

Bus 32 ............................................ 3
ID 7 ............................................ 3
General Education ............................................ 12

Fourth Semester

ID 8 ............................................ 3
ID 9 ............................................ 3
General Education ............................................ 6

12

See Degree Requirements and Transfer Information section for General Education requirements.

Interior Design

Certificate of Achievement

The Interior Design program has been developed to prepare students for careers in various areas of home and business improvement. Students can prepare for careers as display designer,

space planner, furniture buyer, and sales representatives for retail organizations.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 2</td>
<td>Art Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>Art 4A</td>
<td>Color and Design</td>
<td>3</td>
</tr>
<tr>
<td>Bus 32</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>DT 31</td>
<td>Interior Design Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ID 5</td>
<td>Beginning Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID 6</td>
<td>Materials and Installations</td>
<td>3</td>
</tr>
<tr>
<td>ID 7</td>
<td>Space Planning</td>
<td>3</td>
</tr>
<tr>
<td>ID 8</td>
<td>Advanced Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID 9</td>
<td>Interior Design Graphics and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>ID 31</td>
<td>Textiles</td>
<td>3</td>
</tr>
</tbody>
</table>

Total minimum units required -- 30

Recommended Courses: Bus 35; DT 2A

Interior Design Courses

ID 5 -- 3 Units

Beginning Interior Design

Class Hours: 3 lecture

Students learn principles and elements of design and color as applied to home interiors. They study materials, organization, and arrangement as related to living needs. The course offers basic preparation for students who plan to seek employment in the field of interior design. Field trips will be required. Transfer credit: CSU

ID 6 -- 3 Units

Materials and Installations

Class Hours: 3 lecture

This course is an introduction to the materials and installation processes common to the field of Interior Design. Both residential and commercial processes will be examined. Special emphasis is placed on procurement, pricing, and manufacturer’s specifications. Transfer credit: CSU

ID 7 -- 3 Units

Space Planning

Class Hours: 2 lecture, 3 laboratory

This course covers the management of space as it relates to three-dimensional functional adequacy, task management, human behavior, social interaction, traffic and work flow. Other topics include technical consideration such as lighting and power, storage, noise control, computer and code requirements along with barrier-free design. Practical application will be demonstrated through laboratory projects. Transfer credit: CSU

ID 8 -- 3 Units

Advanced Interior Design

Prerequisite: ID 5

Class Hours: 3 lecture

This is an advanced study of the historical period and styles of furniture and interiors utilized in Interior Design. An additional focus of the course will include advanced color theory, fabric treatments and materials for Interior Design. Application of color, materials, and historical styles to contemporary living will be developed. Transfer credit: CSU

ID 9 -- 3 Units

Interior Design Graphics and Presentation

Prerequisites: DT 31, ID 5

Class Hours: 2 lecture, 3 laboratory

This course surveys the standard materials for Interior Design presentation for an actual residential or commercial client. The principle focus of this course is the development of a portfolio, instruction in visual presentation, exploration of media common to the marketplace and the proficiency in the application of business practices of Interior Design. Transfer credit: CSU

121
ID 22A/B -- 1-3/1-3 Units
Independent Studies in Interior Design
Prerequisite: A previous course in Interior Design
Class Hours: 1-3 tutorial

This course is for students who are interested in furthering their knowledge of interior design on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

ID 31 -- 3 Units
Textiles (F)
Class Hours: 3 lecture

This is a study of the care of textile fibers, their construction, characteristics, finishes, and uses. It is designed to give a basic knowledge of textiles which will help the student in selecting and caring for textiles. Twenty-five decorative techniques of textiles will be designed by each student as a reference. Transfer credit: CSU; UC
International and Intercultural Studies

The major in International Studies is based upon the idea that the past 20 years have seen a series of significant changes in some of the fundamental ways in which nations have traditionally dealt with one another. There has been a shift away from the older politics of conflict and competition toward the recognition that economic and developmental strategies require international planning and management. Nations are beginning to realize that their destinies are mingled in a way, and to a degree, that is unprecedented. The major is designed to permit students to function in this new environment.

Faculty
Counselor
Ofelia Romero-Motlough

International Studies
Associate in Arts Degree
The program includes required classes as enumerated below. In addition, students must select a field of emphasis from those listed below.

Required Courses: Units
Anth 2 Cultural Anthropology 3
Econ 1 Principles of Micro-Economics 3
Engl 31 Masterpieces of World Literature II 3
Geog 3 Geography of World Affairs 3
Hist 1B An Intro to Western Civilization 3
or Hist 60F The World Since 1945 3
Pol Sc 2 Comparative Government 3
Pol Sc 3 American Government and Politics 3
Pol Sc 4 International Relations 3

Required Additional Courses:
Electives: Students may select any of the following areas of emphasis, choosing two courses from any single area. Participation in Moorpark College Study Abroad program may be substituted for 3 units.

Area A: Business - Economics
Bus 30/ Intro to Business and Economics 3
Econ 30 3
Bus 31 Introduction to Management 3
Bus 37 Marketing 3
Econ 2 Principles of Macro-Economics 3

Area B: Culture and Politics
Hist 7B Social and Political History of the United States 3
Hist 9 Latin American History 3
Hist 10 African History 3
Hist 16 Asia in the Modern World 3
Hist 60E Modern England 3
Hist 60F The World Since 1945 3
Hist 60G Modern Germany 3
Hist 60R Modern Russia 3
Phil 11 Survey of World Religions: West 3
Phil 12 Survey of World Religions: East 3
Soc 1 Intro to Sociology 3

Area C: Foreign Languages
Two semesters of the same language: a parallel study of the appropriate culture, e.g., Spanish/Latin American History, is recommended.

Area D: Environmental Studies
Env Sc 2 Environment and Human Interactions 4
Env Sc 3 Energy Resources and Conservation 3
Geog 1 Our Physical Environment 3
Geog 7 The Human Impact 3
Total minimum units required in major area – 30

See Degree Requirements and Transfer Information section for General Education requirements.
Study in the Italian language provides specialists to work in areas such as anthropology, economics, political science, literature, and sociology. While teaching is the principle area of employment, other careers may be found in interpreting, translating, research, diplomacy, libraries, and the publishing business.

**Career Opportunities**

<table>
<thead>
<tr>
<th>B.A. Level</th>
<th>Foreign-Exchange Trader</th>
</tr>
</thead>
<tbody>
<tr>
<td>Translator</td>
<td>Foreign Clerk</td>
</tr>
<tr>
<td>Diplomatic Office</td>
<td>Foreign Service Officer</td>
</tr>
<tr>
<td>Tutor</td>
<td></td>
</tr>
<tr>
<td>Editor</td>
<td></td>
</tr>
</tbody>
</table>

**Faculty**

<table>
<thead>
<tr>
<th>Part-Time</th>
<th>Counselor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Damiano Marano</td>
<td>Ofelia Romero-Motlagh</td>
</tr>
<tr>
<td>David Pardess</td>
<td></td>
</tr>
</tbody>
</table>

**Italian Courses**

**ITAL 1 -- 4 Units**

**Elementary Italian I**

Class Hours: 4 lecture, 1 laboratory by arrangement

This is an intensive study of the Italian language and culture. Special emphasis will be given to the skills and knowledge necessary for speaking, understanding, reading and writing Italian and the unique nature of the people and their history. The language laboratory will be used extensively in the class, and students will be expected to arrange an additional hour of language lab time each week. Transfer credit: CSU; UC

**ITAL 2 -- 4 Units**

**Elementary Italian II**

Prerequisite: Ital 1 or 2 years of high school Italian with grades of C or better or equivalent fluency

Class Hours: 4 lecture, 1 laboratory by arrangement

This course concentrates on development of the ability to understand and to express Italian in oral and written form. Extensive use is made of the language laboratory. All students will be expected to spend an additional hour per week of study in the language laboratory. Transfer credit: CSU; UC

**ITAL 3 -- 4 Units**

**Intermediate Italian I**

Prerequisite: Ital 2 with grade of C or better

Class Hours: 4 lecture, 1 laboratory by arrangement

Review and development of grammatical concepts learned in previous courses. Expansion of vocabulary and practice in composition are emphasized. Introduction to literature and further study of culture and civilization through short stories will be covered. Transfer credit: CSU; UC

**ITAL 22A/B -- 1-3/1-3 Units**

**Independent Studies in Italian**

Prerequisite: A previous course in Italian

Class Hours: 1-3 tutorial

This course is for students who are interested in furthering their knowledge of Italian on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

**ITAL 31A -- 3 Units**

**Beginning Conversational Italian**

Class Hours: 3 lecture

This introductory course for nonnative speakers of Italian includes study of elementary grammar and principles of usage. It is designed for students who wish to understand and use Italian in practical situations. May be taken two (2) times for credit.

**ITAL 31B -- 3 Units**

**Intermediate Conversational Italian**

Prerequisite: Ital 31A or equivalent

Class Hours: 3 lecture

This is an intermediate course for nonnative speakers of Italian, including study of grammar and principles of usage. Designed for students who have some basic conversational Italian, but who wish to continue work in this area. May be taken two (2) times for credit.

**ITAL 31C -- 3 Units**

**Advanced Conversational Italian**

Prerequisite: Ital 31B or equivalent

Class Hours: 3 lecture

This course emphasizes correct oral communication in Italian. It is especially geared for the student with an Italian-speaking background. The music, art, literature and architecture of Italy will serve as the main topics of oral presentation and discussion.
Japanese

Study in the Japanese language provides specialists to work in areas such as anthropology, economics, political science, literature, and sociology. While teaching is the principle area of employment, other careers may be found in interpreting, translating, research, diplomacy, libraries, and the publishing business.

Career Opportunities

- B.A. Level
- Translators
- Diplomatic Office
- Tutor
- Editor
- Foreign-Exchange Trader
- Foreign Clerk
- Foreign Service Officer

Faculty

- Part-Time
- Nakoko Hall
- Paul Jonokuchi
- Counselor
- Ofelia Romero-Motlagh

Japanese Courses

**JAPAN 1 -- 4 Units**

**Elementary Japanese I**

Class Hours: 4 lecture, 1 laboratory by arrangement

This course is an intensive study of the Japanese language and culture with special emphasis on speaking and writing skills. Students will be expected to spend one hour in the language lab each week. Transfer credit: CSU; UC

**JAPAN 2 -- 4 Units**

**Elementary Japanese II**

Prerequisite: Japan 1 with a grade of C or better or equivalent

Class Hours: 4 lecture, 1 laboratory by arrangement

This course will include grammar, oral and written composition; development of communications skills; reading of elementary texts; customs and culture. Students will be expected to spend one hour in the language lab each week. Transfer credit: CSU; UC

**JAPAN 3 -- 4 Units**

**Intermediate Japanese I**

Prerequisite: Japan 2

Class Hours: 4 lecture, 1 laboratory by arrangement

This course will include grammar, oral and written composition; reading of intermediate texts; customs and culture. Students will be expected to spend one hour in the language lab each week. Transfer credit: CSU; UC

**JAPAN 22A/B -- 1-3/1-3 Units**

**Independent Studies in Japanese**

Prerequisite: A previous course in Japanese

Class Hours: 1-3 tutorial

This course is for students who are interested in furthering their knowledge of Japanese on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

**JAPAN 31A -- 3 Units**

**Beginning Conversational Japanese**

Class Hours: 3 lecture

This is an introductory course for nonnative speakers of Japanese, including study of elementary grammar and principles of usage. Designed for students who wish to understand and use Japanese in practical situations. May be taken two (2) times for credit.

**JAPAN 31B -- 3 Units**

**Intermediate Conversational Japanese**

Prerequisite: Japan 31A or equivalent

Class Hours: 3 lecture

Fundamentals of grammar, vocabulary and the essential structure of the Japanese language are presented. Emphasis is placed on listening comprehension and then oral communication. The Japanese writing system is gradually introduced to provide the students with the total experience of the language. Aspects of the culture are also included. May be taken two (2) times for credit.
Journalism

The Journalism major program has a two-fold purpose: to provide preparation for careers in newspaper and magazine editorial work, television and radio news, or public relations, and, to provide a study of the mass media of mass communications for those students who feel it would contribute to their liberal education.

Career Opportunities

<table>
<thead>
<tr>
<th>Position</th>
<th>Advertising Assistant</th>
<th>Writer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reporter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feature Writer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copy Editor</td>
<td>Publicity Director</td>
<td></td>
</tr>
<tr>
<td>Editorial Assistant</td>
<td>Technical Writer</td>
<td></td>
</tr>
<tr>
<td>Make-up Editor</td>
<td>Proofreader</td>
<td></td>
</tr>
<tr>
<td>Photographer</td>
<td>Stringer</td>
<td></td>
</tr>
<tr>
<td>Lay-out Worker</td>
<td>Production Assistant</td>
<td></td>
</tr>
</tbody>
</table>

Faculty

- Full-Time
  - Bona Dillon
  - John Grywacz-Gray

- Part-Time
  - Edward Bond
  - Don Henderson
  - Mary Martin

■ Journalism

Occupational Associate in Science Degree

This program is designed to introduce students to the field of Journalism with possible preparation for entry-level positions as stringers, lay-out workers, advertising assistants, and other production related jobs. An internship program in connection with local print media is available.

Required Courses:

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journ 1 Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>Journ 2 News Reporting and Writing</td>
<td>3</td>
</tr>
<tr>
<td>Journ 3 Advanced News/Feature Writing</td>
<td>3</td>
</tr>
<tr>
<td>Journ 8 Basic Photo-Journalism</td>
<td>3</td>
</tr>
<tr>
<td>Journ 9 Copy Editing and Make-up</td>
<td>3</td>
</tr>
<tr>
<td>Journ 10A Newspaper Production</td>
<td>3</td>
</tr>
<tr>
<td>Journ 12 Broadcast Journalism</td>
<td>3</td>
</tr>
<tr>
<td>Journ 14 Intro to Public Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Total minimum units required in major area -- 24

Recommended Courses: Bus 38; Journ 10B, 11A

See Degree Requirements and Transfer Information section for General Education requirements.

Journalism Courses

**Journ 1 -- 3 Units**

Media and Society

Class Hours: 3 lecture

This course surveys the history and nature of print and electronic media in America. It will examine the social, political and cultural implications of media. (co-numbered RT 1) Transfer credit: CSU; UC: CAN: JOUR 4

**Journ 2 -- 3 Units**

News Reporting and Writing

Class Hours: 3 lecture

This course is an introduction to the field of Journalism through the study of information gathering and reporting techniques. Concentration on research, investigation, interviewing, reporting and writing, ethics and basic journalism law demonstrated by mastering basic writing skills applicable in the mass media. News, feature, sports and persuasion writing are emphasized. Transfer credit: CSU. CAN: JOUR 2

**Journ 3 -- 3 Units**

Advanced News/Feature Writing

Class Hours: 3 lecture

Students learn to write the kind of feature articles used in magazine and newspapers, as well as the techniques used in gathering material. Practical experience is given through writing for the school newspaper and magazine. Transfer credit: CSU

**Journ 4 -- 3 Units**

Magazine Article Writing

Class Hours: 3 lecture

This course offers instruction in writing for magazines, including feature articles, reviews, and editorials suitable for publication. It includes practice in editing and the use of illustrative materials. Transfer credit: CSU

**Journ 8 -- 3 Units**

Basic Photo-Journalism

Prerequisite: Photo 1A or suitable portfolio

Class Hours: 2 lecture, 3 laboratory

This course concentrates on the aspects of photography as applied to mass communication, broadcast and print journalism. Students concentrate on the translation of ideas to images for reproduction in magazines, newspapers and book illustrations. Other topics include special effects, the utilization of camera and light as creative tools and basic motion picture techniques. May be taken two (2) times for credit. (co-numbered Photo 8) Transfer credit: CSU

**Journ 9 -- 3 Units**

Copy Editing and Make-up

Class Hours: 2 lecture, 3 laboratory

This course offers study and practice in analysis of structure and effectiveness of written materials, rewriting, correction of errors, proofreading, headline writing, news and picture evaluation, and page design. Opportunity is provided to work on the campus newspaper. Transfer credit: CSU

**Journ 10A/B -- 3/3 Units**

Newspaper Production

Class Hours: 1 lecture, 6 laboratory

This is a course in the conception, development, editing, layout and composition of newspapers. Particular emphasis will be given to finding attractive and effective ways of presenting written and pictorial matter. Instruction will be given in the graphic arts, use of composing and headlining equipment. Journ 10B may be taken two (2) times for credit. Transfer credit: CSU

**Journ 10C -- 2 Units**

Photography Lab for Newspaper Production

Class Hours: 1 lecture, 3 laboratory

This course provides an opportunity for practical experience in photo-journalism. It is a support course for the campus newspaper production. May be taken two (2) times for credit.

**Journ 11A -- 3 Units**

Magazine Editing

Class Hours: 2 lecture, 3 laboratory

This is a course in the analysis, development, composition and layout of magazines or similar publications. Emphasis is given to coordinating feature stories and related articles with attractive pictorial displays. Instruction is also given in the graphic arts as related to magazine production. (co-numbered Engr 47) Transfer credit: CSU

**Journ 12 -- 3 Units**

Broadcast Journalism

Class Hours: 3 lecture

In this advanced practical course in the preparation of radio and television newscasts, students develop interviewing skills, write original news copy and edit and rewrite wire service copy for on-air purposes. Actual field work is performed using remote recording equipment. (co-numbered RT 12) Transfer credit: CSU

**Journ 14 -- 3 Units**

Introduction to Public Relations

Class Hours: 3 lecture
This course is an introduction to public relations in today’s society. It includes a survey of the origins of public relations and a study of the definitions, processes, and audiences of public relations. Specifics will include public relations in businesses, as well as associations, volunteer agencies and educational institutions. Course content includes how to write, prepare and submit release to video/audio and print media. Transfer credit: CSU

**JOURN 22A/B -- 1-3/1-3 Units**

**Independent Studies in Journalism**
Prerequisite: A previous course in Journalism
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of journalism on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

**JOURN 60A-Z -- 1-6 Units**

**Topics in Journalism**
Prerequisite: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Journalism not covered in detail in the general Journalism course offerings. Topic courses are announced on a semester basis in the schedule of classes.

---

**Laser/Electro-Optics Technology**
See Engineering Technology and Physics A.S. degree, Electro-Optics Option.

**Leadership**
All Leadership courses are listed with the Personal Growth courses. Refer to that section alphabetically for full course information.

**Learning Skills**
All Learning Skills courses are listed with the Special Education courses. Refer to that section alphabetically for full course information.
Liberal Studies

Faculty
Counselors
Rick Cardoni
José de la Peña

Transfer Information
The major in Liberal Studies is designed primarily for students seeking the multiple subjects (elementary) credential, but is open to all students. This major is not appropriate for most students intending to teach in a public junior or senior high school. The completion of the Liberal Studies major automatically satisfies the General Education requirements of the University.

While the four components are common to this major at any Cal State campus, the specific courses required in each component will vary between campuses. Plan to see your counselor for more details about this major -- do this early to avoid errors in course selection.

Major requirements for advanced standing at:
California State University, Northridge:
1. Freshman Composition: Engl 1A.
4. Introduction to Literature: Engl 1B or 30 or 31.
5. Foreign Language: Any intermediate-level (3) foreign language course.
8. Physical Science: Phy Sc 1, 1L.
10. Roots of European Society & Culture: Hist 1A.
14. California History & Geography: Geog 10 or Hist 8.
15. Philosophy: Phil 1.
16. Ethos, Values, and Religion: Phil 2 or 11.
17. Visual & Performing Arts: Select one course from: Art 1A, 1B, 2; Mus 8; ThA 1.

Major requirements for advanced standing at:
California Lutheran University:
1. Engl 1A & 1B.
2. ThA 2A.
5. Biol 1.
6. Phy Sc 1, 1L.
7. Geol 2, 2L.
8. Pol Sc 3.
10. Psych 1A.
11. Phil 2.
13. NIS 4.
14. Additional lower-division requirements after transfer.

Major requirements for advanced standing at:
San Diego State University:
Foreign Language Requirement: Competency (equivalent to that which is normally attained through three consecutive courses of college study) is required in one foreign language.
1. Engl 1A.
2. Engl 1C.
4. Engl 1B or 30 or 31.
5. Math 10*
6. Biol 1 or EATM 1.
7. One course from: Astron 1; Chem 12; Geog 1, 5; Phy Sc 1/1L; Ph 1, 10A/10AL.
8. The course selected for either #6 or #7 must include a lab.
9. Anth 2 or Geog 2.
10. Psych 1A.
11. Select two courses from: Hist 3, 4, 5, 6, 7A, 7B, 12; Pol Sc 1, 3; Urban 1A.
12. Phil 1 or 2.
13. Hist 1A or 1B.
14. Mus 1*.
15. One course from: Art 1A, 1B, 2, 4A, 12A, ThA 1.
*These courses are prerequisites for admission into the SDSU Multiple Subjects Credential program. Students seeking admission into the SDSU credential program must complete these courses with grades of "C", "CR", or higher no more than five years prior to admission to the program.
Required Specialization: A 12-unit upper-division specialization is required at SDSU.
Grade Point Requirements: Although the required GPA for graduating with a B.A. in Liberal Studies is a 2.0, the minimum overall GPA for all course work for admission to the SDSU Multiple Subjects Credential program is a 2.64 or better. It is recommended that students strive for the GPA above a 2.64 while working toward the Liberal Studies degree.
The Mathematics degree program offers training in both pure and applied mathematics, leading to careers in research, education, business, industry, and government. Many areas, such as the physical, biological, and social sciences, engineering, economics, and business, are dependent upon the use of applied mathematics in developing solutions to practical problems.

**Career Opportunities**

B.S. Level  
(Most careers require bachelors or advanced degrees)

**Banker**  Mathematician  
**Systems Analyst**  Demographer  
**Programmer**  Operations Research Analyst  
**Statistical Methods Analyst**  Applied Science Programmer  
**Statistician**

**Faculty**

**Full-Time**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christine Aguilera</td>
<td>Mahayd Rahnamaie</td>
</tr>
<tr>
<td>Beverly Barker</td>
<td>Deborah Ritchie</td>
</tr>
<tr>
<td>Alberto Baron</td>
<td>Benjamin Rode</td>
</tr>
<tr>
<td>Jane Broadbooks</td>
<td>Fred Schaal</td>
</tr>
<tr>
<td>Kathryn Fink</td>
<td>Kokki Shindo</td>
</tr>
<tr>
<td>Keith Hilmer</td>
<td>Robert Stephens</td>
</tr>
<tr>
<td>David Kay</td>
<td>Arthur Szylewicz</td>
</tr>
<tr>
<td>Mary LaBarge</td>
<td>Roger Walters</td>
</tr>
<tr>
<td>Fred Meyer</td>
<td>David Weinstein</td>
</tr>
<tr>
<td>Charles Molnar</td>
<td>Grethe Wygant</td>
</tr>
<tr>
<td></td>
<td>Counselors</td>
</tr>
<tr>
<td></td>
<td>Edna Ingram</td>
</tr>
<tr>
<td></td>
<td>Letricia Mai</td>
</tr>
<tr>
<td></td>
<td>Danita Redd Terry</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Part-Time</td>
<td>Richard McIntyre</td>
</tr>
<tr>
<td>Nicholas Arnold</td>
<td>Dean Meyers</td>
</tr>
<tr>
<td>Joseph Barr</td>
<td>Stephen Mussack</td>
</tr>
<tr>
<td>Janice Christensen</td>
<td>John Mutolo</td>
</tr>
<tr>
<td>Kenneth Clark</td>
<td>David Ogawa</td>
</tr>
<tr>
<td>Christine Cole</td>
<td>James Riley</td>
</tr>
<tr>
<td>Robert Davis</td>
<td>David Rodabaugh</td>
</tr>
<tr>
<td>Stephen Eberhart</td>
<td>Kristine Ryan</td>
</tr>
<tr>
<td>Eugene Foxman</td>
<td>Virginia Seaton</td>
</tr>
<tr>
<td>James Gilmore</td>
<td>Natlee Sekikawa</td>
</tr>
<tr>
<td>Thomas Greenwood</td>
<td>David Smith</td>
</tr>
<tr>
<td>Nella Hartnell</td>
<td>Zhila Tabatabai</td>
</tr>
<tr>
<td>Thomas Hetherington</td>
<td>Karen Tait</td>
</tr>
<tr>
<td>Robert Holden</td>
<td>Manuel Tessier</td>
</tr>
<tr>
<td>Gary Hughes</td>
<td>Linda Trexel</td>
</tr>
<tr>
<td>Jimmy Ingersoll</td>
<td>John Wells</td>
</tr>
<tr>
<td>Robert Jones</td>
<td>John Werth</td>
</tr>
<tr>
<td>Larry Lace</td>
<td>James Wilkes</td>
</tr>
<tr>
<td>Cecilia Leonard</td>
<td>Angela Wilkins</td>
</tr>
<tr>
<td>John Lin</td>
<td>Leo Wingle</td>
</tr>
<tr>
<td>Paul Lin</td>
<td></td>
</tr>
<tr>
<td>Jerzy Lysikowski</td>
<td></td>
</tr>
</tbody>
</table>

**Mathematics Courses**

**Mathematics Courses**

**Mathematics Associate in Arts Degree**

This program is designed to award a designated associate degree to those students who have completed a course of specialization in Mathematics. These requirements were chosen by faculty to optimize students' preparation for upper-division course work for Bachelor of Arts degrees in Mathematics offered by four-year institutions. Since the course work in mathematics is sequential, students may spend less time earning an Associate in Arts Degree and/or Bachelor of Arts Degree by deferring some of the university general education requirements until their Junior and Senior years and giving priority to the requirements for a major in mathematics. In addition, the earning of this degree will be evidence of achievement of technical skills which may be helpful towards the seeking of immediate employment.

**Preparation for the Major:**

- Mathematics -- two years high school algebra plus trigonometry or Math 3 and 7 or equivalent.
- Physics -- one year high school physics or Ph 10A or equivalent.

Mathematics students are strongly encouraged to take advantage of summer school class offerings.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 10/10L</td>
<td>4</td>
</tr>
<tr>
<td>Math 25A Calculus with Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>Math 25B Calculus with Analytic Geometry II</td>
<td>5</td>
</tr>
<tr>
<td>Math 25C Calculus with Analytic Geometry III</td>
<td>5</td>
</tr>
<tr>
<td>Math 31 Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Math 35 Applied Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Ph 20A/20AL Mechanics of Solids and Fluids/Lab</td>
<td>8</td>
</tr>
<tr>
<td>Ph 20B/20BL Electricity and Magnetism/Lab</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total minimum units required in major area -- 35**

**Recommended Courses:** Math 15, 30, Phil 9; Ph 20C/20CL

**Suggested Course Sequence:**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>CS 10/10L</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Math 25A</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Math 31</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Ph 20B/20BL</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>Second</td>
<td>Math 25B</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Ph 20A/20AL</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Fourth</td>
<td>Math 35</td>
<td>3</td>
</tr>
</tbody>
</table>

**See Degree Requirements and Transfer Information section for General Education requirements.**

**Mathematics Courses**

**Mathematics Courses**

**Mathematics Courses**

**IMPORTANT NOTES**

a) A satisfactory grade (A, B, C, or CR) is required for all prerequisite college course work. A student receiving an unsatisfactory grade (D, F, or NC) in a prerequisite college course is to repeat the class and receive a satisfactory grade before enrolling in a sequel college mathematics class.

b) The assessment process advises students who have not completed a mathematics class in a college mathematics program. Information on this process is available at the Counseling Center in the Administration Building and also in the fall, spring, and summer class schedules.

c) A student who has earned a satisfactory grade in a college mathematics class may petition to repeat the class after a lapse of two or more years.

**MATH 1 -- 5 Units**

**Elementary Algebra**

Prerequisite: Math 9 or equivalent college course, or equivalent skills which may be measured by the college assessment process

Class Hours: 5 lecture

This course briefly reviews arithmetic with integers, fractions and decimals. It covers linear equations and inequalities, including graphing, systems of linear equations, polynomials, rational expressions, integer exponents, square roots and radical expressions, and quadratic equations and the quadratic formula. (College credit only. Does not apply toward a degree.)

**MATH 1S -- 1 Unit**

**Elementary Algebra Discussion Session**

Corequisite: Math 1
Class Hours: 1 lecture

This course is a discussion session to accompany Math 1. It gives students the chance to gain a greater mastery of the topics covered in Math 1 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in elementary algebra by introducing supplementary topics related to the core material of Math 1. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving algebra and related problems. May be taken two (2) times for credit. (College credit only. Does not apply toward a degree.)

MATH 2 -- 3 Units
Fundamentals of Geometry (F)
Prerequisite: Math 1 or equivalent college course, or equivalent skills which may be measured by the college assessment process (Math 3 may be taken concurrently.)
Class Hours: 3 lecture

This course concentrates on definitions and properties of lines, segments, planes, rays, angles, triangles, circles and polygons, congruence and similarity of triangles, coordinate systems, areas, volumes, space geometry, triangle trigonometry and methods of proof. (College credit only. Does not apply toward a degree.)

MATH 3 -- 5 Units
Intermediate Algebra
Prerequisite: Math 1 or equivalent college course, or equivalent skills which may be measured by the college assessment process
Class Hours: 5 lecture

This course reviews elementary algebra, including factoring, rational expressions, linear equations and inequalities, determinants and Cramer's Rule, exponents and radicals, complex numbers, functions and graphs, quadratic equations, exponential and logarithmic functions.

MATH 3S -- 1 Unit
Intermediate Algebra Discussion Session
Corequisite: Math 3
Class Hours: 1 lecture

This course is a discussion session to accompany Math 3. It gives students the chance to gain a greater mastery of the topics covered in Math 3 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in intermediate algebra by introducing supplementary topics related to the core material of Math 3. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving algebra and related problems. May be taken two (2) times for credit.

MATH 4A -- 5 Units
Technical Mathematics I
Prerequisite: Math 1 or equivalent college course, or equivalent skills which may be measured by the college assessment process
Class Hours: 5 lecture

Topics covered in this course include basic concepts of algebra, functions and graphs, systems of equations, determinants, products and factors, exponential and logarithmic functions, quadratic equations, trig functions, radical measurement, graphs of trig functions, vectors, complex numbers.

MATH 4B -- 5 Units
Technical Mathematics II
Prerequisite: Math 4A
Class Hours: 5 lecture

Topics covered in this course include nonlinear equations, equations of higher degree, determinants and matrices, inequalities, series, special topics in trigonometry, topics in analytic geometry, introduction to probability and statistics, introduction to differentiation and applications, and introduction to integration and applications.

MATH 5 -- 3 Units
College Algebra
Prerequisite: Math 3 or equivalent college course, or equivalent skills which may be measured by the college assessment process (Math 6 may be taken concurrently.)
Class Hours: 3 lecture

This course covers polynomial functions, rational function, theory of equations, logarithmic and exponential functions, complex numbers, mathematical induction, probability, sequences and series, binomial theorem, matrices and determinants. Completion of both Math 5 and Math 6 is equivalent to completing Math 7. Transfer credit: CSU; UC maximum credit allowed -- 4 units if combined with Math 7 and 12. CAN: MATH 10

MATH 6 -- 3 Units
Trigonometry
Prerequisite: Math 5 or equivalent college course, or equivalent skills which may be measured by the college assessment process (Math 5 may be taken concurrently.)
Class Hours: 3 lecture

This course covers functions, trigonometric functions, solutions of triangles, radian measure, analytic trigonometry, trigonometric identities and equations, composite angle identities, inverse trigonometric functions, complex numbers and polar equations, and logarithms. Completion of both Math 5 and Math 6 is equivalent to completing Math 7. Transfer credit: CSU. CAN: MATH 9

MATH 7 -- 5 Units
College Algebra and Trigonometry
Prerequisite: Math 3 or equivalent college course, or equivalent skills which may be measured by the college assessment process
Class Hours: 5 lecture

This integrated course in college algebra and trigonometry is strongly recommended for all students planning to enter the Math 25ABC sequence. Topics include basic algebraic concepts, equations and inequalities of the first and second degree, functions and graphs, linear and quadratic functions, polynomial functions of higher degree, exponential and logarithmic functions, trigonometric functions, analytical trigonometry, systems of equations and inequalities, and sequences and series. Students taking Math 5, 6, 7 will receive a maximum of 6 units credit. Completion of Math 7 is equivalent to completing both Math 5 and Math 6. Transfer credit: CSU; UC maximum credit allowed -- 4 units if combined with Math 5 and 12. CAN: MATH 16

MATH 7S -- 1 Unit
College Algebra and Trigonometry Discussion Session
Corequisite: Math 7
Class Hours: 1 lecture

This course is a discussion session to accompany Math 7. It gives students the chance to gain a greater mastery of the topics covered in Math 7 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in college algebra and trigonometry by introducing supplementary topics related to the core material of Math 7. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving algebra, trigonometry and related problems. May be taken two (2) times for credit.

MATH 9 -- 3 Units
Pre-Algebra
Recommended Preparation: Competence with whole number arithmetic (addition, subtraction, multiplication and division of whole numbers)
Class Hours: 3 lecture

This course is designed to prepare students for algebra. The emphasis will be on a mathematically sound approach to the basic arithmetic operations with fractions, decimals, and signed numbers. Sufficient drill will be provided to reinforce these operations. There will be a parallel emphasis on problem solving and applications of these operations to topics such as percent, proportion, and measurement. The course will conclude with an introduction to basic algebra. Ability to add, subtract, multiply, and divide positive whole numbers is required background for success in this course. (College credit only. Does not apply toward a degree.)

MATH 9S -- 1 Unit
Pre-Algebra Discussion Session
Corequisite: Math 9
Class Hours: 1 lecture

This course is a discussion session to accompany Math 9. It gives students the chance to gain a greater mastery of the topics covered in Math 9 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in mathematics by introducing supplementary topics related to the core material of Math 9. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving math problems. May be taken two (2) times for credit. (College credit only. Does not apply toward a degree.)
MATH 10 -- 3 Units
Mathematics for Elementary Teachers
Prerequisites: Math 3 or equivalent college course, or equivalent skills which may be measured by the college assessment process; in addition, one year of high school geometry, or Math 2, or equivalent college course
Class Hours: 3 lecture
This course covers the language of sets; systems of numeration; the nature of numbers and the fundamentals of operations; the domain of integers; the fields of rational, real and complex numbers. It will satisfy credential requirements for elementary and junior high teachers and/or general education option under basic studies. Not open to students majoring in the physical sciences or mathematics. Transfer credit: CSU; UC; CAN: MATH 4

MATH 13 -- 3 Units
Mathematical Ideas
Prerequisite: Math 3 or equivalent college course, or equivalent skills which may be measured by the college assessment process
Class Hours: 3 lecture
This course is intended to give general students a better understanding of the nature of mathematics, the character and origin of different subject fields in mathematics and the application of mathematics to several disciplines. Topics to be covered include logic, numeration systems, number theory, mathematical systems, probability, statistics, and application of these topics to the arts, architecture, powers, puzzles, computers, geometry, and everyday needs of the consumer. Transfer credit: CSU; UC

MATH 14 -- 3 Units
Finite Mathematics
Prerequisite: Math 3 or equivalent
Class Hours: 3 lecture
This course is for students of business, managerial, social or behavioral science. Topics include: matrices, linear inequalities and linear programming, mathematics of finance, probability and probability distributions and applications to linear programs. Transfer credit: CSU; UC

MATH 15 -- 5 Units
Introductory Statistics
Prerequisite: Math 3 or equivalent college course, or equivalent skills which may be measured by the college assessment process
Class Hours: 5 lecture
This course explores the nature of statistical methods, including the description of sample data, probability, theoretical frequency distributions, sampling, estimation, testing hypothesis, special topics. Students are given problems and problem-solving techniques. Transfer credit: CSU; UC; CAN: STAT 2

MATH 16S -- 1 Unit
Introductory Statistics Discussion Session*
Corequisite: Math 15
Class Hours: 1 hour
This course is a discussion session to accompany Math 15. It gives students the chance to gain a greater mastery of the topics covered in Math 15 by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in statistics by introducing supplementary topics related to the core material of Math 15. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving statistics problems. May be taken two (2) times for credit.

MATH 16A -- 3 Units
Applied Calculus I
Prerequisites: Math 5 or Math 7 or equivalent college course, or equivalent skills which may be measured by the college assessment process; students need a scientific calculator
Class Hours: 3 lecture
This course gives a brief review of college algebra, and then gives a thorough study of limits, continuity and differentiation. Emphasis is placed on applying differential calculus to problems in business, economics, social and biological sciences. This course ends with an introduction to antidifferentiation. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with Math 25A. CAN: MATH 30

MATH 16B -- 3 Units
Applied Calculus II (S)
Prerequisite: Math 16A or Math 25A or equivalent
Class Hours: 3 lecture
This course is a continuation of Math 16A. The topics covered include integration, elementary and separable differential equations, functions of several variables, partial derivatives, relative maxima and minima, Lagrange multipliers, method of least squares, double integrals, infinite series, Taylor Approximation, and Newton's method. Emphasis is placed on applying calculus to problems in business, economics, social and biological sciences. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with Math 25B. CAN: MATH 32

MATH 20 -- 3 Units
Introduction to Numerical Methods
Prerequisites: Math 16A or Math 25A
Recommended Preparation: High level computer programming class or familiarity with a graphic calculator
Class Hours: 3 lecture
Topics covered in this course include: error analysis, power series calculation of functions, roots of equations, non-linear simultaneous equations, matrices, determinants, and linear simultaneous equations; numerical integration; interpolation and curve fitting. These numerical methods will be practically applied using a computer. Transfer credit: CSU; UC

MATH 22A/B -- 5/3-5/3 Units
Independent Studies in Mathematics
Prerequisite: A previous course in Mathematics
Class Hours: 5/3-5/3 tutorial
This course is for students who are interested in furthering their knowledge of mathematics on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work, or field trips. May be taken for a maximum of 5 units. Transfer credit: CSU; UC credit limitations.

MATH 25A -- 5 Units
Calculus with Analytic Geometry I
Prerequisites: Math 5 and Math 6 or Math 7 or equivalent college course, or equivalent skills which may be measured by the college assessment process
Class Hours: 5 lecture
Topics covered in this course include: a brief review of college algebra, the real number system, elements of analytic geometry and functions; limits, continuity, differentiation and integration of algebraic functions with applications, differentiation and integration of elementary transcendental functions with applications, and solutions of 1st order, separable differential equations with applications. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with Math 16A. CAN: MATH 18

MATH 25AS -- 1 Unit
Calculus with Analytic Geometry I Discussion Session*
Corequisite: Math 25A
Class Hours: 1 lecture
This course is a calculus discussion session to accompany Math 25A. Students will study selected problems pertinent to material covered in Calculus. Course may include reading, writing, and use of a computer to solve calculus problems. May be taken two (2) times for credit.

MATH 25B -- 5 Units
Calculus with Analytic Geometry II
Prerequisite: Math 25A or Math 16B or equivalent
Class Hours: 5 lecture
Topics covered in this course include: differentiation and integration of the logarithmic and exponential functions, inverse trigonometric and the hyperbolic functions, techniques of integration, improper integrals and L'Hopital's Rule, sequences, series, and Taylor's Theorem, analytical geometry including conic sections, translations, rotations, and applications of integration and differentiation. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with Math 16B. CAN: MATH 20

MATH 25BS -- 1 Unit
Calculus with Analytic Geometry II Discussion Session*
Corequisite: Math 25B
Class Hours: 1 lecture
This course is a discussion session to accompany Math 25B. It gives students the chance to gain a greater mastery of the topics covered in
Math 25B by providing additional discussion and problem-solving opportunities. It also gives students a richer experience in calculus by introducing supplementary topics related to the core material of Math 25B. This course may also include appropriate topics from the history of mathematics and opportunities to use a computer in solving calculus problems. May be taken two (2) times for credit.

MATH 25C -- 5 Units
Calculus with Analytic Geometry III
Prerequisite: Math 25B or equivalent
Class Hours: 5 lecture
Study is made of Power series, L'Hopital's Rule, improper integrals, vector space theory, vector calculus, function of several variables, multiple integrals. Transfer credit: CSU; UC. CAN: MATH 22

MATH 30 -- 3 Units
Introduction to Modern Algebra
Prerequisite: Math 25B or equivalent
Class Hours: 3 lecture
This course is an introduction to logic and proofs, set theory, relations and mappings, properties of integers, and algebraic structures. Transfer credit: CSU; UC

MATH 31 -- 3 Units
Introduction to Linear Algebra (F)
Prerequisite: Math 25B or equivalent
Class Hours: 3 lecture
Studies include vectors, vector spaces, matrices, systems of linear equations, dimension, determinants, eigenvalues. Linear transformations are also covered. Transfer credit: CSU; UC

MATH 33 -- 3 Units
Introduction to Analysis
Prerequisite: Math 25C or equivalent
Class Hours: 3 lecture
Elements of real analysis and set theory are studied with emphasis on obtaining a thorough understanding of the basic concepts of set theory, algebra and topology of the real numbers, limits, continuity. Transfer credit: CSU; UC

MATH 35 -- 3 Units
Applied Differential Equations (S)
Prerequisite: Math 25B or equivalent
Class Hours: 3 lecture
This course includes study of linear differential equations, equations with constant coefficients, variation of parameters, Laplace transform, systems of linear equations, series solutions, first order differential equations, existence and uniqueness of solutions with emphasis on applications to physics and engineering, introduction to Fourier series and partial differential equations. Transfer credit: CSU; UC. CAN: MATH 24

MATH 89A-Z -- .5-3 Units
Institutes in Mathematics
Prerequisites: To be determined
Class Hours: Variable
This is a series of special lectures, discussions and demonstrations on selected topics to be chosen as demand and opportunities arise.
Music

The Moorpark College Music Department offers a wide variety of classes for both the aspiring professional musician who wishes to continue studies at the university level, and the knowledgeable amateur eager to understand and appreciate the important role music occupies in this society.

Career Opportunities

<table>
<thead>
<tr>
<th>Position</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accompanist</td>
<td>Composer (studio, religious, educational, classical concert)</td>
</tr>
<tr>
<td>Arranger/Orchestrator</td>
<td>Conductor/Music Director</td>
</tr>
<tr>
<td>Church Musician</td>
<td>Instrument Repairperson</td>
</tr>
<tr>
<td>Copyist</td>
<td>Librarian (public, university, radio/TV)</td>
</tr>
<tr>
<td>Editor</td>
<td>Musicologist/Researcher</td>
</tr>
<tr>
<td>Instructor/Tutor/Coach</td>
<td>Music Business Administrator</td>
</tr>
<tr>
<td>Librettist/Lyricist</td>
<td>Public Relations/Agent</td>
</tr>
<tr>
<td>Performer</td>
<td>Radio Announcer/Disc Jockey</td>
</tr>
<tr>
<td>Publisher</td>
<td>Salesperson</td>
</tr>
</tbody>
</table>

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orbie Ingersoll</td>
<td>Marilyn Anderson</td>
<td>Don Henderson</td>
</tr>
<tr>
<td>Dolly Kessner</td>
<td>Ronald Borczon</td>
<td></td>
</tr>
<tr>
<td>James Song</td>
<td>Mona DeCesare</td>
<td></td>
</tr>
<tr>
<td>James Stemen</td>
<td>Edward Demond</td>
<td></td>
</tr>
<tr>
<td>Joan Thompson</td>
<td>Diane Gilbert</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Suzanne Julian</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sandra Kip</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Michael Kozubek</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jonathan Nathan</td>
<td></td>
</tr>
<tr>
<td></td>
<td>John Paton</td>
<td></td>
</tr>
</tbody>
</table>

Music

Associate in Arts Degree

This program is designed for the students interested in specializing in music education leading to transfer to most universities and/or a professional career in music.

Required Courses for all specialization areas:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 2A</td>
<td>Diatonic Harmony</td>
<td>3</td>
</tr>
<tr>
<td>Mus 2B</td>
<td>Chromatic Harmony</td>
<td>3</td>
</tr>
<tr>
<td>Mus 2C</td>
<td>Aural Skills II</td>
<td>1</td>
</tr>
<tr>
<td>Mus 2D</td>
<td>Tonal Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>Mus 2DL</td>
<td>Aural Skills IV</td>
<td>1</td>
</tr>
<tr>
<td>Mus 9A</td>
<td>Music History and Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 9B</td>
<td>Music History and Literature</td>
<td>3</td>
</tr>
<tr>
<td>Mus 25A/B</td>
<td>Class Piano</td>
<td>1.5-1.5</td>
</tr>
</tbody>
</table>

Area Specializations

Instrumental Music Specialization

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 14</td>
<td>Fundamentals of Instrumental Technique</td>
<td>2</td>
</tr>
<tr>
<td>Mus 25C/D</td>
<td>Class Piano</td>
<td>1.5-1.5</td>
</tr>
<tr>
<td>Mus 29</td>
<td>Repertoire Class</td>
<td>1-1</td>
</tr>
<tr>
<td>Mus 30/31</td>
<td>Applied Music</td>
<td>2.5-2.5</td>
</tr>
</tbody>
</table>

Required Additional Courses:

One (1) ensemble class each semester for a total of 8 units.

NOTE: Each performance class may be repeated. Total minimum units required in major area -- 40

Keyboard Music Specialization

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 20</td>
<td>Piano Ensemble</td>
<td>2-2</td>
</tr>
<tr>
<td>Mus 25C/D</td>
<td>Class Piano</td>
<td>1.5-1.5</td>
</tr>
<tr>
<td>Mus 29</td>
<td>Repertoire Class</td>
<td>1-1</td>
</tr>
<tr>
<td>Mus 30/31</td>
<td>Applied Music</td>
<td>2.5-2.5</td>
</tr>
</tbody>
</table>

Music Theory & Composition Specialization

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 2C</td>
<td>Musical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Mus 2CL</td>
<td>Aural Skills III</td>
<td>1</td>
</tr>
<tr>
<td>Mus 14</td>
<td>Fundamentals of Instrumental Technique</td>
<td>2</td>
</tr>
<tr>
<td>Mus 25C/D</td>
<td>Class Piano</td>
<td>1.5-1.5</td>
</tr>
</tbody>
</table>

Required Additional Courses:

One (1) ensemble class each semester for a total of 8 units.

NOTE: Each performance class may be repeated. Total minimum units required in major area -- 37

Vocal Music Specialization

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 13A/B</td>
<td>Fundamentals of Vocal Technique I-II</td>
<td>2-2</td>
</tr>
</tbody>
</table>

Mus 13C/D...Advanced Vocal Development I-II | 2-2 |

Mus 29...Repertoire Class | 1-1 |

Mus 30/31...Applied Music | 2.5-2.5 |

Required Additional Courses:

One (1) ensemble class each semester for a total of 8 units.

NOTE: Each performance class may be repeated. Total minimum units required in major area -- 39

See Degree Requirements and Transfer Information section for General Education requirements.

Music

Certificate of Achievement

This program is designed to provide the student with the basic training, knowledge and conducting skills necessary for accepting a position as a church or community choral director.

Recommended Courses for all options:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 2A</td>
<td>Diatonic Harmony</td>
<td>3</td>
</tr>
<tr>
<td>Mus 2B</td>
<td>Chromatic Harmony</td>
<td>3</td>
</tr>
<tr>
<td>Mus 3A</td>
<td>Aural Skills I</td>
<td>2</td>
</tr>
<tr>
<td>Mus 9A</td>
<td>Music History and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following options:

Choral Conducting

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mus 10</td>
<td>Concert Choir</td>
<td>2-2</td>
</tr>
<tr>
<td>Mus 13A/B</td>
<td>Fundamentals of Vocal Technique I-II</td>
<td>2-2</td>
</tr>
</tbody>
</table>

133
MUS 25A/B....Class Piano.........................................................1.5-1.5
MUS 27........Choral Conducting..............................................2
MUS 60D........Los Robles Master Chorale.................................2
MUS 60E........Choral Conducting Seminar................................3
Total minimum units required -- 29

Instrumental Conducting

Required Courses:
MUS 2BL........Aural Skills II.....................................................1
MUS 9B...........Music History and Literature...........................3
MUS 19...........Chamber Ensembles...........................................2-2
MUS 21...........Wind Ensemble...................................................2
MUS 22A/B.....Independent Studies in Music...........................1-1
MUS 25A/B.....Class Piano......................................................1-5-1.5
MUS 28...........Instrumental Conducting.................................2-2
Total minimum units required -- 30

Vocal Performance

Required Courses:
MUS 2BL........Aural Skills II.....................................................1
MUS 10............Concert Choir...................................................2-2
MUS 13A/B......Fundamentals of Vocal Technique I-II..................2-2
MUS 13C/D.....Advanced Vocal Development I-II........................2-2
MUS 16............Opera Theatre..................................................2-2
MUS 25A/B.....Class Piano......................................................1-5-1.5
Total minimum units required -- 31

Music Courses

Students planning to take more than 12 units of Music courses marked with * should consult a counselor; the UC system allows credit for the first 12 units only.

MUS 1 -- 3 Units
Fundamentals of Music
Class Hours: 3 lecture
This course is a study of music, notation, intervals, scales, triads, sight-singing, and dictation. This course is designed for the student with little or no prior experience in music, and to those majors/minors who do not qualify for MUS 2A. Transfer credit: CSU; UC

MUS 2A -- 3 Units
Diatonic Harmony
Prerequisite: MUS 1
Class Hours: 3 lecture
This course is a study of diatonic harmonic vocabulary, four-part choral writing, and sight-singing. This course is designed for the student with little or no prior experience in music, and for music majors/minors who do not qualify for MUS 2A. Transfer credit: CSU; UC

MUS 2B -- 3 Units
Chromatic Harmony
Prerequisite: MUS 2A
Corequisite: MUS 2BL
Class Hours: 3 lecture
This course is a continuation of MUS 2A with pivot-chord modulation. Study of harmonic vocabulary, foreign-key modulation, keyboard and instrumental styles, composition. Concurrent enrollment is required. Transcrad credit: CSU; UC

MUS 2BL -- 1 Unit
Aural Skills II
Corequisite: MUS 2B
Class Hours: 3 laboratory
A continuing course in the development of vocal music. The Music Learning Center will be used extensively. May be taken two (2) times for credit. Transfer credit: CSU; UC

MUS 2C -- 3 Units
Musical Analysis
Prerequisite: MUS 2B
Corequisite: MUS 2CL
Class Hours: 3 lecture
This course emphasizes analysis of musical form along with a more intensive examination of harmonic problems while surveying musical literature from the Baroque to the Twentieth Century periods. Transfer credit: CSU; UC

MUS 2CL -- 1 Unit
Aural Skills III
Prerequisite: MUS 2BL
Corequisite: MUS 2C
Class Hours: 3 laboratory
This is a continuation of MUS 2BL with more individual work in the Music Learning Center to strengthen the student's weaker areas. Course includes more complex drill in all areas of musicianship. May be taken two (2) times for credit. Transfer credit: CSU; UC

MUS 2D -- 3 Units
Tonal Counterpoint
Prerequisite: MUS 2B
Corequisite: MUS 2DL
Class Hours: 3 lecture
This course deals with the analysis and composition of 18th century contrapuntal forms in the style of J.S. Bach. Cullination of this course is the composition of a two-part invention and a three-part fugue. Concurrent enrollment in MUS 2DL required. Transfer credit: CSU; UC

MUS 2DL -- 1 Unit
Aural Skills IV
Prerequisite: MUS 2CL
Corequisite: MUS 2D
Class Hours: 3 laboratory
This course deals with the analysis and composition of 18th century contrapuntal forms in the style of J.S. Bach. Cullination of this course is the composition of a two-part invention and a three-part fugue. Concurrent enrollment in MUS 2DL required. Transfer credit: CSU; UC

MUS 3A -- 2 Units
Aural Skills I
Class Hours: 1 lecture, 3 laboratory
This course deals with the analysis and composition of 18th century contrapuntal forms in the style of J.S. Bach. Cullination of this course is the composition of a two-part invention and a three-part fugue. Concurrent enrollment in MUS 2DL required. Transfer credit: CSU; UC

MUS 6 -- 3 Units
Introduction to Jazz
Class Hours: 3 lecture
This course is a study of the development of jazz with emphasis on the influence of historical and socioeconomic factors. The course includes a stylistic analysis of jazz and its musical elements in order to develop musical awareness. Transfer credit: CSU; UC

MUS 7 -- 3 Units
Survey of 20th Century American Music
Class Hours: 3 lecture
Survey of 20th Century American Music is a music appreciation class which focuses on the study of American music from early jazz to the present. It traces the roots of American music, examines the musical contributions of such talents as Gershwin, Copland, Bernstein, and others, and explores Folk, Big Band Rock as well as the Age of New Electronics in music. Transfer credit: CSU; UC

MUS 8 -- 3 Units
Music Appreciation
Class Hours: 3 lecture
This course is a study of the development of music of the Western world beginning with the Romanesque periods, and ending with the Baroque period. It includes
a study of the major instrumental and vocal forms and the composers of each period. Considerable emphasis is placed upon listening, identifying, and analyzing representative works of each stylistic period. Transfer credit: CSU; UC.

MUS 93 -- 3 Units
Music History and Literature
Class Hours: 3 lecture
This is a study of the changing styles, techniques, and forms of music from the middle of the 18th Century to the present. Special emphasis is placed upon the artistic philosophy of each style period. Intensive consideration is given to the analysis of style and form in representative musical works. Required for music majors. Listening and analysis outside the classroom is required. Transfer credit: CSU; UC.

MUS 10 -- 2 Units
Concert Choir
Class Hours: 1 lecture, 3 laboratory
This is a singing organization for both music majors and non-music majors, which rehearses and performs choral music selected from the Renaissance, Baroque, Classical, Romantic, and Modern Periods. Performances include on-campus concerts, high school assembly programs, community college choral festivals, and other community events. May be taken four (4) times for credit. Transfer credit: CSU; UC*.

MUS 12 -- 2 Units
Vocal Ensemble
Prerequisite: Audition
Class Hours: 1 lecture, 3 laboratory
A select group of singers who study and perform suitable choral music from all periods. In the spring semester the ensemble specializes in the performance of Renaissance music including English and Italian madrigals, French chansons, German lied, and sacred motets. The ensemble, known as the Renaissance Singers, appears in English Tudor costumes, makes numerous appearances at Concerts, festivals, assembly programs, Renaissance Pleasure Faires, and other community events. May be taken four (4) times for credit. Transfer credit: CSU; UC*.

MUS 13A -- 2 Units
Fundamentals of Vocal Technique I
Class Hours: 1 lecture, 3 laboratory
This course is designed to begin development of the vocal potential to lay a foundation for proper vocal production and to correct faulty singing. Material will consist of song literature sung in Italian and English in addition to vocal exercises. Course is designed for both majors and non-majors desiring beginning vocal training. Transfer credit: CSU; UC*.

MUS 13B -- 2 Units
Fundamentals of Vocal Technique II
Prerequisite: MUS 13A or adequate prior study
Class Hours: 1 lecture, 3 laboratory
Designed to follow MUS 13A, the course will further develop through advanced vocal exercises and the introduction of advanced sung literature, simple opera and oratorio literature. Transfer credit: CSU; UC*.

MUS 13C -- 2 Units
Advanced Vocal Development I
Prerequisite: MUS 13B or equivalent
Class Hours: 1 lecture, 3 laboratory
This course is a continuation in development of a proper vocal production. Material to be studied will consist of English, Italian, German, French art songs, and more demanding opera and oratorio literature. Transfer credit: CSU; UC*.

MUS 13D -- 2 Units
Advanced Vocal Development II
Prerequisite: MUS 13C or equivalent
Class Hours: 1 lecture, 3 laboratory
This is a continuation of vocal development through the study and performance of more challenging literature with emphasis on the operatic and oratorio literature in addition to more difficult art song literature. Transfer credit: CSU; UC*.

MUS 14 -- 2 Units
Fundamentals of Instrumental Technique
Class Hours: 1 lecture, 3 laboratory
This course is open to anyone with a desire to learn an orchestral instrument. It introduces students to basic techniques and proper maintenance of orchestral instruments. Students learn the musical vocabulary that enables them to participate effectively in an ensemble setting. Successful completion of this course may lead to membership in the college orchestra and/or concert ensembles. May be taken four (4) times for credit. Transfer credit: CSU; UC.

MUS 15 -- 2 Units
Moopark Community Orchestra
Prerequisites: Must be able to read music and be proficient on an orchestral instrument
Class Hours: 1 lecture, 3 laboratory
Moopark Community Orchestra is designed to provide a setting for instrumentalists who aspire to focus on standard orchestral repertoire through rehearsals and public performances. This versatile group performs literature ranging from chamber music to symphonies covering Renaissance to modern periods. May be taken four (4) times for credit. Transfer credit: CSU; UC.

MUS 16 -- 2 Units
Opera Theatre
Prerequisite: MUS 13C or equivalent
Class Hours: 1 lecture, 3 laboratory
This is the study of song literature taken from the musical theatre. This course will enable students to study and perform opera and musical plays in excerpt or as a complete production. Course is designed for singers with proven ability and interest in the opera. May be taken four (4) times for credit. Transfer credit: CSU; UC.

MUS 17 -- 3 Units
Summer Music Theatre
Prerequisite: Audition
Class Hours: 144 laboratory total
A complete musical theatre work will be rehearsed and performed by members of this class for presentation to the community. May be taken four (4) times for credit. Transfer credit: CSU; UC.

MUS 18 -- 2 Units
Jazz Ensemble
Prerequisite: Ability to play a musical instrument appropriate to the Jazz Ensemble (piano, percussion, sax, trumpet, guitar, bass guitar, electronic instruments)
Class Hours: 1 lecture, 3 laboratory
Students will read, prepare and perform music arranged for jazz ensemble and big band. Rehearsal for and performance at scheduled concerts are required. May be taken four (4) times for credit. Transfer credit: CSU; UC.

MUS 19 -- 2 Units
Chamber Ensembles
Prerequisite: Ability to play a musical instrument and to read music notation
Class Hours: 1 lecture, 3 laboratory
Within a chamber ensemble setting, students will study, rehearse, and perform chamber music literature from the Renaissance to the Twentieth Century. May be taken four (4) times for credit. Transfer credit: CSU; UC.

MUS 20 -- 2 Units
Piano Ensemble
Prerequisite: MUS 25B or equivalent training
Class Hours: 1 lecture, 3 laboratory
Piano literature for one piano - 4 hands, two pianos - 4 hands, will be covered in this course. May be taken four (4) times for credit. Transfer credit: CSU; UC.

MUS 21 -- 2 Units
Wind Ensemble
Prerequisite: Ability to perform on a standard band instrument
Class Hours: 1 lecture, 3 laboratory
The Wind Ensemble is designed to provide a setting for wind and percussion instrumentalists who aspire to focus on standard wind ensemble and symphonic band repertoire through rehearsals and public performances. May be taken four (4) times for credit. Transfer credit: CSU; UC.

MUS 22A/B -- 1-3/1-3 Units
Independent Studies in Music
Prerequisite: A previous course in Music
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of music on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

MUS 25A -- 1.5 Units
Class Piano
Class Hours: 3 lecture/laboratory
This course is designed for the student with little or no prior piano experience. It includes the fundamentals of piano playing, music reading, technique, improvisation, scales, chords, and simple piano literature. Transfer credit: CSU; UC*

MUS 25B -- 1.5 Units
Class Piano
Prerequisite: MUs 25A
Class Hours: 3 lecture/laboratory
This course is designed to teach greater independence of hands, continues music reading and technique skills, further exploration of chords and scales. Transfer credit: CSU; UC*

MUS 25C -- 1.5 Units
Class Piano
Prerequisite: MUs 25B
Class Hours: 3 lecture/laboratory
This course is designed to teach greater independence of hands, and continues music reading and technique skills. Overview and study of the "teaching" pieces of the major important composers. Transfer credit: CSU; UC*

MUS 25D -- 1.5 Units
Class Piano
Prerequisite: MUs 25C
Class Hours: 3 lecture/laboratory
This course is designed to teach greater independence of hands, and continues music reading and technique skills. Overview and study of intermediate-advanced pieces of the major composers. Transfer credit: CSU; UC*

MUS 26 -- 2 Units
Beginning Jazz Piano
Class Hours: 1 lecture, 3 laboratory
This introductory course is designed for the student who wants to study acoustic or electronic piano from a jazz approach. Jazz keyboard patterns will include blues (including boogie-woogie), ragtime, rock, gospel, and country western. The course will include both a strong emphasis on sight reading skills as well as rote learning (playing by ear). May be taken two (2) times for credit. Transfer credit: CSU; UC*

MUS 27 -- 2 Units
Choral Conducting
Class Hours: 2 lecture, 1 laboratory
This course is the study of basic conducting techniques including the 2/4, 3/4, 4/4, 8/8, 3/8, 2/8 and subdivided beat patterns. Video recording and perusal by students will assist the learning process. Class members and prepared cassette recordings will provide the music for conducting practice. Transfer credit: CSU; UC*

MUS 28 -- 2 Units
Instrumental Conducting
Prerequisite: Equivalent of MUs 1
Class Hours: 1 lecture, 3 laboratory
A study is made of basic conducting techniques of various instrumental organizations; students also explore instrumental literature, including style, performance and interpretation. May be taken two (2) times for credit. Transfer credit: CSU; UC*

MUS 29 -- 1 Unit
Repertoire Class
Corequisite: MUs 30 or MUs 31
Class Hours: 1 lecture
Student performance of musical literature currently being studied in MUs 30 or 31 will be critiqued by the class and its instructor. May be taken four (4) times for credit. Transfer credit: CSU; UC*

MUS 30A-G -- 2.5-3 Units
Applied Music Instruction - Woodwind/Brass/Strings/-Piano/Classical Guitar/Percussion/Voice
Prerequisite: Student must perform at a college freshman level to be accepted into the MUs 30 Applied Music Program. The audition will be based on repertoire standards published by the Music Department.
Corequisites: 1) Repertoire Class - MUs 2B; 2) Music Theory - MUs 2A, 2B, 2C, or 2D; 3) Performance Ensemble - MUs 10, 15, 16, 18, 19, 20, 21, 60D, 60G, 60P, or 60V
Class Hours: 5-1 lecture, 6 laboratory
This course offers individual instruction by approved instructors in performance of literature for the individual instrument. The class provides a half-hour or a one-hour private lesson, and requires six hours of practice on campus per week. May be taken four (4) times for credit. Transfer credit: CSU; UC*

MUS 31A-G -- 2.5-3 Units
Applied Music Instruction (student-paid) - Woodwind/-Brass/Strings/Piano/Classical Guitar/Percussion/Voice
Corequisite: None, however enrollment in the following is recommended: 1) Repertoire Class - MUs 2B; 2) Music Theory - MUs 2A, 2B, 2C, or 2D; 3) Performance Ensemble - MUs 10, 15, 16, 18, 19, 20, 21, 60D, 60G, 60P, or 60V
Class Hours: 5-1 lecture, 6 laboratory
This course offers individual instruction by approved instructors in performance of literature for the individual instrument. For a fee the class provides a half-hour or a one-hour private lesson, and requires six hours of practice on campus per week. May be taken four (4) times for credit. Transfer credit: CSU; UC*

MUS 32 -- 2 Units
Class Guitar
Class Hours: 1 lecture, 3 laboratory
This course will focus on the development of the basic skills required to play simple melodies and first position chords on both acoustic and electric guitars. May be taken four (4) times for credit. Transfer credit: CSU; UC*

MUS 60A-Z -- 1-3 Units
Topics in Music
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Music not covered in detail in the general Music course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC credit limitations.

Topics which have been developed include:

60A -- 2 Units
Intermediate Orchestral Techniques
Prerequisite: MUs 15
Class Hours: 1 lecture, 3 laboratory
This course emphasizes rehearsal disciplines and responsibilities (bowing, fingering, and dynamics). May be taken four (4) times for credit.

60B -- 3 Units
Intermediate Studies in Music Theory
Prerequisite: MUs 2A
Class Hours: 3 lecture
This course is designed for students who have completed at least one semester of music theory and are interested in special intermediate studies in music theory and analysis.

60C -- 3 Units
Advanced Studies in Music Theory
Prerequisites: MUs 2A, MUs 2B
Class Hours: 3 lecture
This course is designed for students who have completed the first year of music theory and are interested in advanced studies in the areas of harmonic analysis, counterpoint, and form.

60D -- 2 Units
Los Robles Master Chorale
Prerequisite: Audition
Class Hours: 1 lecture, 3 laboratory
The Masterworks Chorale is designed for the experienced singer wishing to perform the choral works of master composers. Music suitable for the large ensemble is selected from the Renaissance, Baroque, Classic, Romantic, and Modern Periods. May be taken four (4) times for credit.

60E — 3 Units

Choral Conducting Seminar
Prerequisite: Mus 27 or equivalent experience
Class Hours: 3 lecture

The Choral Conducting Seminar addresses the problems facing the choral director. The course focuses on understanding the historical background of choral conducting, the director's role as interpreter, the selection of appropriate choral materials, the understanding of the stylistic differences of choral music and the periods in which they were composed, the efficient use of rehearsal techniques, and the conducting of the performance.

60F — 2 Units

Advanced Orchestral Techniques
Prerequisite: Mus 60A
Class Hours: 1 lecture, 3 laboratory
This course emphasizes interpretation of rhythm and phrasing. May be taken four (4) times for credit.

60G — 2 Units

Advanced Chamber Music
Prerequisite: Mus 19
Class Hours: 1 lecture, 3 laboratory
This course offers continuing instruction in the performance of small ensemble instrumental music. Graded literature for various instrumental combinations for rehearsal and performance is studied. May be taken four (4) times for credit.

60J — 2 Units

Intermediate Jazz Performance
Prerequisite: Mus 18
Class Hours: 4 lecture/laboratory
This course emphasizes the improvisational techniques as well as rehearsal disciplines and responsibilities (i.e., fingerings, dynamics, ensemble techniques, various jazz styles, etc.). Rehearsal for and performance at scheduled concerts are required. May be taken four (4) times for credit.

60K — 2 Units

Advanced Jazz Performance
Prerequisite: Mus 60J
Class Hours: 4 lecture/laboratory
This course emphasizes the further development of jazz performance styles as well as rehearsal disciplines and responsibilities. Rehearsal for and performance at scheduled concerts are required. May be taken four (4) times for credit.

60P — 2 Units

Advanced Choral Performance
Prerequisite: Audition
Class Hours: 1 lecture, 3 laboratory
This is an advanced course in the performance of choral literature requiring strong note-reading abilities and voice skills. May be taken four (4) times for credit.

60T — 2 Units

Masterworks Abroad
Prerequisite: Audition
Class Hours: 6 laboratory
Designed for experienced singers, this course combines preparatory rehearsals on campus with concert performances, seminars, lectures, and related cultural activities on tour abroad. May be taken four (4) times for credit.

60V — 2 Units

Advanced Concert Choir
Prerequisites: Satisfactory completion of Mus 10, Mus 60P or equivalent work; audition required
Class Hours: 1 lecture, 3 laboratory
Advanced Concert Choir is a choral organization which is concerned with the refinement of choral singing. Detailed attention is given to intonation, tonal quality, tonal blend and balance, textual articulation, interpretation, and stage presence. May be taken four (4) times for credit.

Nursing Science
All Nursing Science courses are listed with the Health Science courses. Refer to that section alphabetically for full course information.
Nutritional Science

The nutritional science program is designed to meet the needs of all health conscious persons. The program particularly addresses itself to those aspiring to careers in health and fitness related professions and teaching and to those interested in promoting personal wellness. For some, this program may lead to entry into the dietetics/nutrition program at a four-year college or university.

Career Opportunities
(Most careers will need a bachelor's degree of advanced studies)
Diet Aide
Diet Program Lecturer

Faculty
Full-Time
Judy Alexander
Linda Vickers
Part-Time
Bridget Harvey-Elliott
Counselor
Ofelia Romero-Motliagh

Nutritional Science Courses

**NTS 1 -- 3 Units**
**Nutrition**
Class Hours: 3 lecture
This is a study of the nutrients, their sources, assimilation, functions and requirements. Topics include current national and international problems and evaluation of nutritional information in mass media. Good for majors and non-majors. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with Phys 2. CAN: H EC 2

**NTS 3 -- 3 Units**
**Current Issues in Nutrition**
Prerequisite: NTS 1 or equivalent course
Class Hours: 3 lecture
This course is a focus on contemporary concerns in nutrition. It will cover areas such as nutrition and stress, body image, wellness, nutrient supplements, energy balance and eating disorders. Emphasis on health concerns and career needs of students in health care fields will also be included. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with Phys 2

**NTS 4 -- 3 Units**
**Nutrition, Fitness and Stress Management**
Class Hours: 3 lecture
This is an integrated approach to good health and physical fitness through the study of basic principles of exercise, nutrition and human behavior. Concepts will be applied to specific topics of current concern such as weight control, heart disease and stress management. Skills for incorporating habits and techniques into one's daily life will be stressed. Transfer credit: CSU

**NTS 5 -- 3 Units**
**Nutrition for the Health Professions**
Class Hours: 3 lecture
This course is an evaluation of nutritional status; promotion of optimal nutrition; and application of nutrition principles to common medical disorders. Transfer credit: CSU

**NTS 22A/B -- 1-3/1-3 Units**
**Independent Studies in Nutritional Science**
Prerequisite: A previous course in Nutritional Science
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of nutritional science on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU
Personal Growth/Leadership

Student Personnel Services provides two types of classroom instruction: personal growth classes emphasizing career development and personal self-help course work and leadership classes aimed at encouraging involvement in student government.

Faculty

Full-Time
Donna Proske Alyn  
Francis Bianchino  
Donald Henderson  
Susan Izumo

Part-Time
Leticia Mai  
Lisa Raufman  
Denita Redd Terry  
Ofelia Romero-Motlagh  
Jeff Franco  
Gail Goodman  
Mary Martin

Leadership Courses

LDR 1 -- 1 Unit
Principles of Leadership I  
Class Hours: 1 lecture, 1 practicum  
Effective group leadership is developed through an understanding of the basic tenets of parliamentary procedure. Practical application of parliamentary procedure in the group situation will be emphasized. May be taken four (4) times for credit. Transfer credit: CSU

LDR 2 -- 2 Units
Principles of Leadership II *  
Class Hours: 2 lecture  
This advanced leadership course develops effective leadership through guest speakers of faculty, staff, and community leaders, plus instructor, speaking on topics such as parliamentary procedure, successful relationships, problem solving, affirmative action, cultural diversity, argumentation and debate, shared governance, ethics, the legislative process, management techniques, marketing, running a business, and use of computers. May be taken four (4) times for credit. Transfer credit: CSU

LDR 89A -- 1 Unit
Student Government Leadership *  
Class Hours: 16 lecture total  
This special performance class open to all students is designed to develop skills and effective leadership ability in preparation to serve as an Associated Student Body officer, as a student club officer, as a student representative on campus governance committees, or as a student involved with the student activities program. Transfer credit: CSU

Personal Growth Courses

PG 1 -- 1 Unit
Student Success  
Class Hours: 2 lecture for 8 weeks  
This course provides students with an opportunity to learn techniques and adopt attitudes and skills that promote academic success. Course content is taught with the objective of identifying personal obstacles to academic success. The focus will be on time management, procrastination and goal setting, stress management, focusing and concentrating, adjusting to college, the problems of addiction, and successful relationships. Campus resources providing further support will also be introduced. Transfer credit: CSU

PG 2 -- 3 Units
Career Development  
Recommended Preparation: Undeclared majors complete during first year  
Class Hours: 3 lecture  
The focus is on career, personal and educational awareness as they relate to the process of career choice and academic goal setting. Planning skills and self-assessment instruments which focus on interests, skills, values, and personality, will help identify career options. Decision-making strategies, labor market trends, interviewing skills, resume writing, application completion and job search techniques will be reviewed. Short-term models (PG 2X) will incorporate selected topics of the semester course. Fee for career assessment materials. Transfer credit: CSU

PG 3 -- .5 Units
Orientation *  
Class Hours: 5 lecture total  
This course is the Testing, Orientation, Planning (TOP) program which involves Math, English, and Reading assessments to assist students in determining appropriate placement in these subjects. Students will view the Moorpark College video that gives an introduction to the college's programs and services. Counselor assistance will be provided with first semester educational planning. Students will attend Counseling Workshop(s) in their area of interest(s).

PG 4 -- 1 Units
Student Development in Higher Education  
Recommended Preparation: PG 3 or Math, English, Reading assessments and orientation  
Class Hours: 2 lecture for 8 weeks  
This course is an introduction to student development and lifelong learning. The role of higher education in life, academic requirements, services, programs, and technological resources will be reviewed. Models for student success, choosing a major and a college will be presented. Time management, study skills, learning styles, and values clarification will be assessed. Students will learn a problem solving and decision-making model to assist them throughout their personal, academic, and professional lives. Students develop an educational plan that will provide them with the knowledge and skills to transition beyond Moorpark College. Transfer credit: CSU

PG 60A-Z -- 1-3 Units
Topics in Personal Growth *  
Prerequisites: To be determined with each Topic  
Class Hours: To be determined with each Topic  
This is a special series of courses each of which deals with a specific topic in Personal Growth not covered in detail in the general Personal Growth course offerings. Topic courses are announced on a semester basis in the schedule of classes. (College credit only. Does not apply toward a degree.)

Topics which have been developed include:

60A -- 1 Unit
Confident Test Taking  
Class Hours: 16 lecture total  
Course will assist students to feel more confident about taking instructor-prepared tests and standardized examinations. Assignments and discussion will focus on positive and negative self images while taking tests, problem-solving approaches, and relaxation techniques. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)
The study of philosophy provides students with the unique opportunity to carefully analyze and thoughtfully respond to the fundamental ideas and basic concerns present in the human experience. It requires the constructive reexperiencing of these problems and doubts in one's own life. The goal is to examine ourselves, our culture, and our world with the aims of criticizing and contributing toward a reformation of self and world. The program also develops analytical, critical and writing skills that are an excellent preparation for professional and other careers.

Career Opportunities
(Careers require a bachelors degree or advanced degree)

Social Worker
Urban Planner
Lawyer
Management Trainer
Public Administrator
Project Director

Faculty

Full-Time
Part-Time
Counselors
Janice Daurio
Selton Peters
Mike Johnson
Victor Fontaine
Mark Pursley
Mary Martin
Elton Hall
Michael Rosenthal

Philosophy Courses

PHIL 1 -- 3 Units
Introduction to Philosophy
Class Hours: 3 lecture
Philosophy 1 has as its purpose the systematic exploration of the concepts of human knowledge, reality and thought. Both theoretical and practical concepts will be examined, including free will, skepticism, dogmatism, materialism, epistemology, metaphysics and aesthetics. As an introduction to the subject, it requires no previous course work. Transfer credit: CSU; UC; CAN: PHIL 2

PHIL 2 -- 3 Units
Values and Society
Class Hours: 3 lecture
This course is an introduction to the philosophy of ethics through a study of some of the basic questions of life: what is good? What is right? How should I live? What are my obligations to others? Are morals relative? Do we have free will? An attempt is made to review the ideas and arguments of philosophers concerning these, and related issues, and to encourage individual application of the ideas presented. Transfer credit: CSU; UC; CAN: PHIL 4

PHIL 3 -- 3 Units
Social and Political Philosophy
Class Hours: 3 lecture
This course is a study of the philosophical foundations of social and political thought. Theories about collective human organization can view people as acting naturally according to individual rules; as group members behaving within social roles; and as participants in legal relationships within political institutions. This course is designed to show the importance of philosophical assumptions about collective human nature, by clarifying the differences and connections between these perspectives. Transfer credit: CSU; UC

PHIL 4 -- 3 Units
Values and the Environment
Class Hours: 3 lecture
This course is an introduction to ethics through a study of the basic questions of life as they relate to the environment and its nonhuman inhabitants; do animals have rights? Do humans have obligations to nonhuman entities, including the earth itself? Included are discussions of anthropocentrism, ecocentrism, ecofeminism and multicultural perspectives on humankind and nature. A review of ideas and arguments of philosophers concerning these and related issues will encourage individual application of the ideas presented. Transfer credit: CSU; UC

PHIL 5 -- 3 Units
Critical Thinking and Analytic Writing
Class Hours: 3 lecture
Survey of and practice in reasoning, including analysis, critical reasoning, and synthesis, induction and deduction, and identification of assumptions and perspectives. Emphasis is on both oral and written analysis and argumentation of issues involving fact, belief and value, and on common fallacies of thought, logic, and language. Students will develop the basics of critical reading, analytic writing and the relation of writing to critical thinking beyond the level achieved in Eng 1A. Transfer credit: CSU; UC

PHIL 6 -- 3 Units
Introduction to Non-Western Philosophy
Class Hours: 3 lecture
This course systematically explores concepts of human knowledge, reality and thought as found in non-western traditions. Both theoretical and practical concepts will be examined, including issues of free will, skepticism, dogmatism, materialism, epistemology, metaphysics and aesthetics. This course is designed to meet all requirements that Phil 1 meets, being an alternative introduction to philosophy. Transfer credit: CSU; UC

PHIL 7 -- 3 Units
Introduction to Logic
Class Hours: 3 lecture
This course will explore elementary thought processes, both deductive and inductive with emphasis on definition, verification, validity, forms of argument and of fallacious reasoning and application of various areas of inquiry. Transfer credit: CSU; UC; CAN: PHIL 6

PHIL 9 -- 4 Units
Symbolic Logic
Class Hours: 4 lecture
This course is an introduction to symbolic logic, including the logic of connectives and the logic of quantifiers. Topics to be included will be truth functional composition, consistency trees, derivations, and quantifications. Transfer credit: CSU; UC

PHIL 11 -- 3 Units
Survey of World Religions: West
Class Hours: 3 lecture
This course is a systematic study of the major ideas of the world's western religious traditions, including Judaism, Christianity and Islam, and an overview of the cultural and historical contexts in which these religions arose, as well as recent offshoots of these traditions. Each religion is viewed from the standpoint of its proponents. The purpose is to promote a broader understanding of the main similarities and differences which these outlooks exhibit. Transfer credit: CSU; UC

PHIL 12 -- 3 Units
Survey of World Religions: East
Class Hours: 3 lecture
This course is a systematic study of the major ideas of the world's eastern religious traditions, including Hinduism, Zoroastrianism, Buddhism, Jainism, Sikhism, Taoism, Confucianism and Shinto, and an overview of the cultural and historical contexts in which these religions arose. Each religion is viewed from the standpoint of its proponents. The purpose is to promote a broader understanding of the main similarities and differences which these outlooks exhibit. Transfer credit: CSU; UC

PHIL 22A/B -- 1-3/1-3 Units
Independent Studies in Philosophy
Prerequisite: A previous course in Philosophy
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of philosophy on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work
or field trips. May be taken for a maximum of 6 units. Transfer credit:
CSU; UC credit limitations.

PHIL 60A-Z -- 1-3 Units
Topics in Philosophy
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic

This is a special series of courses each of which deals with a specific topic in Philosophy not covered in detail in the general Philosophy course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC credit limitations.

Topics which have been developed include:

60A -- 1 Unit
Philosophy of Nonviolence
Class Hours: 1 lecture

This class will explore the theory and practice of nonviolence, both as a political strategy and as a philosophical approach to life. Discussion will be based on classical and contemporary texts, including works by Gandhi, Camus, and Thoreau.
A comprehensive program designed to provide professional job skills for future photographers is the goal of this program.

**Career Opportunities**
(Professional school or college degree preferable)
- Portrait Photographer
- Aerial Photographer
- Still Photographer
- Photograph Restorer
- Photograph Printer
- Photojournalist
- Audio-Visual Designer
- Corporation Photographer
- Photo Finishing Specialist
- Slide Program Producer/Director
- Fine Art Photographer
- Editorial Photographer

**Faculty**
- Full-Time: John Grzywacz-Gray
- Part-Time: Amani Fliers, Judith Hopkins, Virginia Lawler, James Parker
- Counselor: Don Henderson

**Photography**

**Occupational Associate in Science Degree**
This program is designed for students to acquire the skills necessary to enter the very competitive profession of photography. Instruction in both black and white and color photography along with the latest equipment mastery is provided.

**Required Courses**
- Art 4A. Color and Design ........................................ 3
- Photo 1A. Beginning Photography ................................ 3
- Photo 1B. Intermediate Photography ......................... 3
- Photo 2. The History of Photography .......................... 3
- Photo 3. Basic Color ............................................. 3
- Photo 4. Advanced Photography ................................ 3
- Photo 5. Color Printing ........................................... 3
- Photo 8. Basic Photo-Journalism ................................. 3

Total minimum units required in major area = 24

**Recommended Courses:** Art 1A, 1B, 4B, 12A, 12B; Hum 3

See Degree Requirements and Transfer Information section for General Education requirements.

**Photojournalism**

**Occupational Associate in Science Degree**
This program is designed for the student seeking a professional career in newspaper or magazine photography. Students completing this program will be prepared for entry-level photography positions on newspapers, magazines or as free-lance photographers.

**Required Courses:**
- Journ 1. Media and Society ........................................ 3
- Journ 2. News Reporting and Writing .......................... 3
- Photo 1A. Beginning Photography .............................. 3
- Photo 1B. Intermediate Photography .......................... 3
- Photo 2. The History of Photography .......................... 3
- Photo 3. Basic Color ............................................. 3
- Photo 4. Advanced Photography ................................ 3
- Photo 8. Basic Photo-Journalism ................................. 3
- Photo 9. "Reporter" Staff Photography ........................ 4

Total minimum units required in major area = 28

See Degree Requirements and Transfer Information section for General Education requirements.

**Photography Courses**
Students planning to take more than 12 units of course work from all the Photography courses marked with * (and Art courses marked with †) should consult a counselor; the UC system allows credit for the first 12 units only.

**PHOTO 1A -- 3 Units**
**Beginning Photography**
Class Hours: 2 lecture, 3 laboratory
This is a beginning course in photographic theory. Emphasis is placed on photography as a means of creative expression. The course includes a study of the basic principles of camera operation, exposure, developing and printing. Transfer credit: CSU; UC*

**PHOTO 1B -- 3 Units**
**Intermediate Photography**
Prerequisite: Photo 1A or suitable portfolio
Class Hours: 2 lecture, 3 laboratory
This course is an extension of techniques featured in Photo 1A. Emphasis is placed on creativity and exploration of a variety of traditional techniques in black and white, including high contrast images, solarization, posterization, gum bichromate printing and cyanotypes. The following areas will be studied: film sensitivity testing, developer density parameters, paper and paper developer characteristics, archival processing, the use of medium format cameras, and introduction to the view camera. Transfer credit: CSU; UC*

**PHOTO 2 -- 3 Units**
**The History of Photography**
Class Hours: 3 lecture
This course is a survey of the history of photography from Daguerre to the personal images of many well-known contemporaries. Studies will include genres and theories that began in the past and which intensify and clarify the direction of work in the present. Transfer credit: CSU; UC

**PHOTO 3 -- 3 Units**
**Basic Color**
Prerequisite: Photo 1B or suitable portfolio
Class Hours: 2 lecture, 3 laboratory
Students will study the principles of color photography, the use of correction filters; processing of transparency materials with emphasis on creative use of special effects achieved by unique lighting, films and camera techniques directed towards a more expressive visual statement. Experimental approach will be encouraged. May be taken two (2) times for credit. Transfer credit: CSU

**PHOTO 4 -- 3 Units**
**Advanced Photography**
Prerequisite: Photo 3 or suitable portfolio
Class Hours: 2 lecture, 3 laboratory
In this class major emphasis is placed on individual projects. The student will generate ideas and, with instructor guidance, work on the problem of intensifying personal statement through the medium of photography. Students will select their own projects and work with their own ideas, refining technical and aesthetic understanding in black and white and/or color. Areas covered include: zone system, basic densitometry, expansion and compaction development, the view camera, artificial light technique, and portfolio development. Transfer credit: CSU

**PHOTO 5 -- 3 Units**
**Color Printing**
Prerequisite: Photo 3 or suitable portfolio
Class Hours: 2 lecture, 3 laboratory
Students will print from color negatives. "Type C" printing techniques will be learned. In addition the following special techniques will be explored: multiple printing, diffusion, distortion control and exaggeration, combination printing, high contrast, solarization and photodensitometry. May be taken two (2) times for credit. Transfer credit: CSU
PHOTO 8 -- 3 Units
Basic Photo-Journalism
Prerequisite: Photo 1A or suitable portfolio
Class Hours: 2 lecture, 4 laboratory
This course concentrates on the aspects of photography as applied to mass communications, broadcast and print journalism. Students concentrate on the translation of ideas into images for reproduction in magazines, newspapers and book illustrations. Other topics include special effects, the utilization of camera and light as creative tools and basic motion picture techniques. May be taken two (2) times for credit.
(co-numbered Journ 8) Transfer credit: CSU

PHOTO 9 -- 4 Units
"Reporter" Staff Photography
Prerequisite: Photo 8 or suitable portfolio
Class Hours: 1 lecture, 6 laboratory
This is a course for "Reporter" staff photographers who will work in all phases of press photography, including news, feature, illustration, portraiture, sports, and advertising. Students will learn to communicate visually with aesthetic and technical skill. May be taken two (2) times for credit. Transfer credit: CSU

PHOTO 22A/B -- 1-3/1-3 Units
Independent Studies in Photography
Prerequisite: A previous course in Photography
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of photography on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

PHOTO 60A-Z -- 1-3 Units
Topics in Photography
Prerequisite: A previous college-level course in the discipline
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Photography not covered in detail in the general Photography course offerings. Topic courses are announced on a semester basis in the schedule of classes.

Topics which have been developed include:

60A -- 1 Unit
Field Studies in Photography
Class Hours: 5 lecture, 1.5 laboratory
Photo field work concentrates on solving the specific photographic problems of a chosen location. Students may work in black and white or color. May be taken four (4) times for credit.

60B -- 2 Units
Field Studies in Photography
Class Hours: 1 lecture, 3 laboratory
Photo field work concentrates on solving the specific photographic problems of a chosen location. Students may work in black and white or color. May be taken four (4) times for credit.

60C -- 3 Units
Field Studies in Photography
Class Hours: 1 lecture, 6 laboratory
Photo field work concentrates on solving the specific photographic problems of a chosen location. Students may work in black and white or color. May be taken four (4) times for credit.

60D -- 1 Unit
Laboratory Practice
Class Hours: .5 lecture, 1.5 laboratory
This is instructor-supervised laboratory work for beginning, intermediate and advanced students. May be taken four (4) times for credit.

60E -- 2 Units
Laboratory Practice
Class Hours: .5 lecture, 4.5 laboratory
This is instructor-supervised laboratory work for beginning, intermediate and advanced students. May be taken four (4) times for credit.

60F -- 3 Units
Laboratory Practice
Class Hours: 1 lecture, 6 laboratory
This is instructor-supervised laboratory work for beginning, intermediate and advanced students. May be taken four (4) times for credit.

60I -- 3 Units
Electronic and Digital Photography
Prerequisite: A course in the discipline
Class Hours: 2 lecture, 3 laboratory
This course is a practical introduction to electronic photography and image processing. Students will use the Macintosh computer, silver halide films, electronic still cameras and various scanning techniques to produce photographic output. May be taken two (2) times for credit. (co-numbered GRD 60E)
Physical Education offers students an opportunity to round out their education with emphasis on improving individual physical well-being. It also introduces students to opportunities in physical education and dance professional careers.

**Career Opportunities**

<table>
<thead>
<tr>
<th>Associate Degree Level</th>
<th>Recreation Leader</th>
<th>Industrial Recreation Leader</th>
<th>Racquet Club Manager</th>
<th>Fitness Specialist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athlete</td>
<td>Referee</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recreation Specialist</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Camp Counselor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community Center Leader</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Playground Director</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bachelors Degree Level</th>
<th>Resort Sports Coordinator</th>
<th>Health and Safety Director</th>
<th>YM/YWCA Instructor</th>
<th>Sports Editor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Trainer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teacher</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Physical Therapist</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corrective Therapist</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exercise Test Technologist</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sportscaster</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coach</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Faculty**

**Full-Time**
- James Bittner
- Ronald Hallaran
- John Keefer
- McDean McCullough
- Gilbert Mendoza
- Alyyn Nordquist
- Delbert Parker
- Nancy Stewart
- Willard Thurston
- Manuel Trevino

**Part-Time**
- Gary Abraham
- David Banuelos
- Steven Berk
- James W. Bittner
- Stephen Burkhart
- Kecia Davis
- Charlene Dow
- Donald Green
- Paul Keysaw
- Everett Macy

- Paulette Matsui
- David Murphy
- Thomas Ogders
- Joseph Ortiz
- JoAnn Papadopoulos
- Frank Parodi
- Mario Porto
- Sherry Ruter
- Michael Scanlon
- Kenneth Wagner

- Counselor
- Donna Prosk Allyn

**Human Performance Associate in Arts Degree**

This pre professional "core" program is designed to prepare students for transfer to bachelor degree programs in Physical Education, Physical Therapy, Athletic Training, Coaching and Fitness Management.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 90</td>
<td>Introduction to Human Performance</td>
<td>2</td>
</tr>
<tr>
<td>PE 91</td>
<td>Foundations of Fitness</td>
<td>3</td>
</tr>
<tr>
<td>HE 1</td>
<td>Health and Society</td>
<td>2</td>
</tr>
<tr>
<td>HE 5</td>
<td>Safety and First Aid</td>
<td>3</td>
</tr>
<tr>
<td>HE 6</td>
<td>Prevention and Care of Athletic Injuries</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 1A</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AN 1</td>
<td>General Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1</td>
<td>Human Physiology</td>
<td>5</td>
</tr>
<tr>
<td>NTS 1</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>PE Activities (3)</td>
<td>3-4.5</td>
<td></td>
</tr>
</tbody>
</table>

(one from each team, individual and cardiovascular lists)

Total minimum units required in major area: 32.5

See Degree Requirements and Transfer Information section for General Education requirements.

**Physical Education Courses**

Students planning to take more than 4 units of Physical Education activity courses should consult a counselor. The UC system accepts only that limited number of units. All P.E. courses are accepted for equal semester credit by schools in the California State University system.

Any combination of P.E. activity courses of a particular kind (e.g., body conditioning, golf, tennis, etc.) may be taken for a total of four (4) times.

**Individual Sports Activities**

**PE 1A -- 1.5 Units**

**Walking for Fitness**

Class Hours: 1 lecture, 2 activity

Walking for Fitness is designed to provide exercise and fitness training with emphasis on cardiovascular conditioning and to restore muscle tone to prepare individuals for more strenuous physical activity classes. Designed to meet needs of individuals recovering from respiratory and cardiovascular disorders as well as surgery and minor injuries related to lower extremities. Transfer credit: CSU; UC

**PE 2A -- 1.5 Units**

**Body Conditioning/Fitness Lab**

Class Hours: 1 lecture, 2 activity

Fitness Lab is designed to develop positive habits and attitudes in regard to cardiovascular efficiency, muscular strength, endurance, and flexibility. The open lab structure allows students to freely pick their attendance times. Students start by being assessed in cardiovascular efficiency, muscular strength, flexibility, and body composition. Individual fitness profiles and exercise programs are designed for each student. Exercise activities utilize Paramount and Universal weight machines, Stairmasters (computerized climbing machines), Pacer (motorized treadmills), Lifestyles (computerized cycles), Concept II (computerized rowing machines), and Bodyguard ergometers (exercise bikes). Post comparisons are provided at the end of the semester for each student. Transfer credit: CSU; UC

**PE 2B -- 1.5 Units**

**Body Conditioning/Free Weights**

Class Hours: 1 lecture, 2 activity

This is a body conditioning course designed to improve the cardiovascular system, enhance flexibility and increase muscular strength. The class will include jogging, stretching exercises and specific free weight exercises designed to strengthen the entire body. Transfer credit: CSU; UC
This course is designed for the student with no tennis experience, this course covers beginning skills including etiquette, rules, techniques and strategies of the baseline game. Transfer credit: CSU; UC

PE 11C -- 1.5 Units
Intermediate Tennis
Prerequisite: PE 11A or equivalent
Class Hours: 1 lecture, 2 activity
This course is designed for the student with beginning playing experiences. The course further develops the player in singles and doubles rules, strategies and techniques. Transfer credit: CSU; UC

PE 11D -- 1.5 Units
Advanced Tennis
Prerequisite: PE 11C or equivalent
Class Hours: 1 lecture, 2 activity
Designed for the student with intermediate playing skills and experience, this course further develops the player in singles and doubles, strategies and rules techniques. Tournament play is emphasized. Transfer credit: CSU; UC

PE 21 -- 1.5 Units
Field Hockey
Class Hours: 1 lecture, 2 activity
This course is designed to teach the fundamentals of field hockey. The course includes the individual skills of passing, receiving, and dribbling the ball, and the offensive and defensive tactics and strategy of the team. Transfer credit: CSU; UC

Independent Studies

PE 22A/B -- 1-3/1-3 Units
Independent Studies in Physical Education
Prerequisite: A previous course in Physical Education
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of physical education on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

Team Sports

PE 23C -- 1.5 Units
Intermediate Baseball
Class Hours: 1 lecture, 2 activity
This is a class in which advanced techniques and strategies of baseball are developed. A high degree of skill is emphasized during actual games. Transfer credit: CSU; UC

PE 23D -- 1.5 Units
Advanced Baseball
Prerequisite: PE 23C or equivalent
Class Hours: 1 lecture, 2 activity
This class provides program development of advanced skills in baseball including methods and styles of play. Class members will participate in fall baseball program with lab assignments. Transfer credit: CSU; UC

PE 24C -- 1.5 Units
Intermediate Basketball
Class Hours: 1 lecture, 2 activity
This class covers advanced techniques and strategies in basketball. A continuing development of a high degree of skill is emphasized. Transfer credit: CSU; UC

PE 24D -- 1.5 Units
Advanced Basketball
Prerequisite: PE 24C or varsity high school experience
Class Hours: 1 lecture, 2 activity
This class teaches advanced techniques and strategies in basketball. This course incorporates game experience and different styles and formats of play. Transfer credit: CSU; UC

PE 25C -- 1.5 Units
Intermediate Football
Class Hours: 1 lecture, 2 activity
This course covers development of advanced skills in football and the theory behind the different styles of play. Transfer credit: CSU; UC
PE 25D -- 1.5 Units
Advanced Football
Class Hours: 1 lecture, 2 activity
This class includes advanced techniques of football with the emphasis placed on the offensive and defensive passing game. It includes condition and speed improvement for the football player. Transfer credit: CSU; UC

PE 26 -- 1.5 Units
Team Sports
Class Hours: 1 lecture, 2 activity
This course teaches the basic rules, techniques and strategy of various seasonal team sports, which include soccer, softball, football and basketball. Course provides for actual participation in each sport. Transfer credit: CSU; UC

PE 27 -- 1.5 Units
Soccer
Class Hours: 1 lecture, 2 activity
This is a course in development of soccer skills, including the rules, techniques and strategy of playing the game. Transfer credit: CSU; UC

PE 28 -- 1.5 Units
Softball
Class Hours: 1 lecture, 2 activity
This course offers co-educational instruction and participation in the basic skills and strategy of slow pitch softball. Transfer credit: CSU; UC

PE 29C -- 1.5 Units
Intermediate Track
Class Hours: 1 lecture, 2 activity
Students study advanced techniques and strategies in track and field. A continuing development of a high degree of skill is emphasized in the preparation for a competitive season. Special attention will be given to the development of skills needed for proficiency in the sport. This is a requirement for varsity track candidates. Transfer credit: CSU; UC

PE 29D -- 1.5 Units
Advanced Track
Prerequisite: PE 29C
Class Hours: 1 lecture, 2 activity
Students continue to develop advanced skills and strategies of track and field. Particular attention will be given for the preparation of the student for the competitive season. This is a requirement of all track GA candidates. Transfer credit: CSU; UC

PE 30A -- 1.5 Units
Beginning Volleyball I
Class Hours: 1 lecture, 2 activity
Basic skills in playing volleyball are developed. Students learn rules and techniques of playing power volleyball. Transfer credit: CSU; UC

PE 30C -- 1.5 Units
Intermediate Volleyball
Prerequisite: PE 30A or playing ability in volleyball
Class Hours: 1 lecture, 2 activity
The player with beginning experience is further developed in the fundamental skills and strategies of the six-player game. More exposure to skills allows the player to participate in two and three-player volleyball as well. Transfer credit: CSU; UC

PE 30D -- 1.5 Units
Advanced Volleyball
Prerequisite: PE 30C or equivalent playing experience
Class Hours: 1 lecture, 2 activity
The player with intermediate experience is further developed in the skills and strategies of the six-player game. More exposure to skills allows the player to participate in two and three-player volleyball. Transfer credit: CSU; UC

Combatives/Self-Defense

PE 38A -- 2 Units
Analysis of Sexual Assault and Self-Defense
Class Hours: 2 lecture, 1 activity
This course covers the issues of personal assault and rape, with practical experience in learning self-defense techniques. Students will study the academic literature as well as the physical responses in assault and rape. Transfer credit: CSU; UC

PE 38 -- 1.5 Units
Wrestling
Class Hours: 1 lecture, 2 activity
This is an introduction to wrestling as an educational medium, which gives the student opportunity for self-expression. The student is taught takedowns, rides, escapes, and falls. Transfer credit: CSU; UC

Intercollegiate Athletics
Students are required to pass a physical exam.

PE 64 -- 3 Units
Soccer-Men
Recommended Preparation: Student should understand and be familiar with Soccer skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 65 -- 3 Units
Soccer-Women
Recommended Preparation: Student should understand and be familiar with Soccer skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 66 -- 3 Units
Baseball-Men
Recommended Preparation: Student should understand and be familiar with Baseball skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 67 -- 3 Units
Basketball-Men
Recommended Preparation: Student should understand and be familiar with Basketball skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 68 -- 3 Units
Basketball-Women
Recommended Preparation: Student should understand and be familiar with Basketball skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 69 -- 3 Units
Cross Country-Men
Recommended Preparation: Student should understand and be familiar with Cross Country skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC
PE 70 -- 3 Units
Cross-Country-Women
Recommended Preparation: Student should understand and be familiar with Cross Country skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 71 -- 3 Units
Football-Men
Recommended Preparation: Student should understand and be familiar with Football skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 72 -- 3 Units
Golf
Recommended Preparation: Student should understand and be familiar with Golf skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 73 -- 3 Units
Softball-Women
Recommended Preparation: Student should understand and be familiar with Softball skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 74 -- 3 Units
Tennis-Men
Recommended Preparation: Student should understand and be familiar with Tennis skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 75 -- 3 Units
Tennis-Women
Recommended Preparation: Student should understand and be familiar with Tennis skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 76 -- 3 Units
Track-Men
Recommended Preparation: Student should understand and be familiar with Track skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 77 -- 3 Units
Track-Women
Recommended Preparation: Student should understand and be familiar with Track skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 78 -- 3 Units
Volleyball-Women
Recommended Preparation: Student should understand and be familiar with Volleyball skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 79 -- 3 Units
Wrestling-Men
Recommended Preparation: Student should understand and be familiar with Wrestling skills, rules, and strategies as noted in the course outline.
Class Hours: 1 lecture, 9 activity
Varsity sports are highly competitive and require an advanced degree of skill. Students engaged in varsity sports should expect to compete against other institutions, travel, and put in additional hours beyond the normal activity load. May be taken three (3) times for credit. Transfer credit: CSU; UC

PE 80 -- 2 Units
Introduction to Human Performance and Physical Education
Class Hours: 2 lecture
This course is a general survey of the field of Human Performance and Physical Education. Aims, objectives and contemporary issues of Physical Education and Human Performance will be explored. Projects and field work are required. THIS COURSE DOES NOT FULFILL THE GENERAL EDUCATION PE REQUIREMENT. Transfer credit: CSU, UC pending

Instructional

PE 91 -- 3 Units
Foundations of Fitness
Class Hours: 2 lecture, 3 laboratory
This course introduces the physiological principles and other factors that provide the foundations for the development and maintenance of optimal physical fitness. The students will observe and assist in the fitness training in the Moorpark College Fitness Laboratory. THIS COURSE DOES NOT FULFILL THE GENERAL EDUCATION PE REQUIREMENT. Transfer credit: CSU, UC pending

Adaptive

PE 20 -- 1.5 Units
Adapted Physical Education
Class Hours: 1 lecture, 2 activity
This is a specialized course designed to meet the needs of students who are unable to participate in regular physical education activity classes. Students will be evaluated by the college physician as to the type of physical activity in which they may participate. Each student is given individual attention in terms of an adapted fitness program. May be taken four (4) times for credit. Transfer credit: CSU, UC pending, CO-NUMERATED: SpEd 20.

147
Physical Science

The major in Physical Science is designed to prepare students for a diversity of professions requiring an understanding of the fundamentals of the physical sciences. Such professions include teaching science at the secondary level, technical administration in government and industry, legal work with patents, scientific librarianship, and scientific journalism.

Career Opportunities

(Bachelors degree necessary)
Astronomer
Teacher
Patent Lawyer
Oceanographer

Faculty
Full-Time
Clinton Harper
Counselors
Letricia Mai
Danita Redd Terry

Physical Science Courses

PHY SC 1 -- 3 Units
Principles of Physical Science
Prerequisite: Math 3 or equivalent
Class Hours: 3 lecture

This course introduces selected significant facts, principles and laws from physics and chemistry. Topics will include: motion, force, energy, wave motion, electricity and magnetism, light, atomic structure, chemical bonding and chemical reaction rates and equilibrium. Transfer credit: CSU; UC credit limitations -- no credit if taken after a college course in Astronomy, Chemistry, Geology or Physics

PHY SC 1L -- 1 Unit
Principles of Physical Science Laboratory
Prerequisite: Prior or concurrent enrollment in Phy Sc 1
Class Hours: 3 laboratory

This is a laboratory course designed to be taken concurrently with, or after completion of Phy Sc 1. Laboratory experiments will emphasize selected topics from both introductory physics and chemistry. Transfer credit: CSU; UC

PHY SC 22A/B -- 5-3/5-3 Units
Independent Studies in Physical Science
Prerequisite: A previous course in Physical Science
Class Hours: 5-3 tutorial

This course is for students who are interested in furthering their knowledge of physical science on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.
Physics

The strong emphasis in physics on fundamental concepts and problem solving makes it one of the most versatile majors available. The Physics major provides the basis for careers in applied physics and in interdisciplinary areas such as astronomy, biophysics, environmental science, oceanography, and scientific instrumentation.

Career Opportunities
(Post-bachelor's degree necessary)
- Biomedical Engineer
- Plasma Physicist
- Fusion Engineer
- Nuclear Physicist
- Physical Chemist
- Statistician
- Chemical Physicist

Faculty
- Part-Time Counselors
  - Hadi Dareje
  - Philip Klutch
  - Youssef Kohanzadeh
  - Russell Patner
  - Melvin Pedinoff
  - Ronald Wallingford
  - Edna Ingram
  - Letricia Mai
  - Danita Redd Terry

Physics
Associate in Science Degree
This program is designed to award a designated associate degree to those students who have completed a course of specialization in Physics. These requirements were chosen by faculty to optimize students' preparation for upper-division course work for Bachelor of Science degrees in Physics offered by four-year institutions. Since the course work in physics is sequential, students may spend less time earning an Associate of Science Degree and/or Bachelor of Science Degree by deferring some of the university general education requirements until their Junior and Senior years and giving priority to the requirements for a major in physics. In addition, the earning of this degree will be evidence of achievement of technical skills which may be helpful towards the seeking of immediate employment.

Preparation for the Major:
- Mathematics -- two years high school algebra plus trigonometry or Math 3 and 7 or equivalent.
- Chemistry -- one year high school chemistry or Chem 12 or equivalent.
- Physics -- one year high school physics or Ph 10A or equivalent.

Physics students are strongly encouraged to take advantage of summer school class offerings.

Required Courses: Units
- Chem 1A............General Chemistry I............................6
- Math 25A..........Calculus with Analytic Geometry I............5
- Math 25B..........Calculus with Analytic Geometry II...........5
- Math 25C..........Calculus with Analytic Geometry III...........5
- Ph 20A/20AL......Mechanics of Solids and Fluids/Lab...............5
- Ph 20B/20BL......Electricity and Magnetism/Lab................5
- Ph 20C/20CL......Wave Motion, Heat, Optics & Modern Physics/Lab..5

Select one of the following options:

Physics Option
Core plus the following:
- Chem 1B............General Chemistry II..........................6
- Math 35............Applied Differential Equations................3

Recommended Courses: CS 18/18L; Math 31

Applied Physics Option
Core plus the following:
- CS 10/10L.........Intro to Computer Science/Pascal/Lab.............4
- CS 18/18L.........Computer Programming - FORTRAN/Lab...........4
- Engr 12...........Engineering Materials...........................3
- Math 35...........Applied Differential Equations..................3

Recommended Courses: Chem 1B; Math 31

Electro-Optics Option
Core plus the following:
- Chem 1B............General Chemistry II..........................6
- ET 10.............Introduction to Lasers and Fiber Optics..........2
- Math 31...........Introduction to Linear Algebra...................3
- Math 35...........Applied Differential Equations..................3

Recommended Courses: CS 10/10L; Engr 20/20L

Total minimum units required in major area -- 45-50

Suggested Course Sequence:

First Semester
- Chem 1A............6
- Math 25A...........5
- Ph 20A/20AL........5

Second Semester
- Chem 1B............6
- Math 25B...........5
- Ph 20A/20AL........5

Third Semester
- Math 25C...........5
- Ph 20B/20BL........5

Fourth Semester
- Math 35...........5
- Ph 20C/20CL........5

Electro-Optics Option
Core plus the following:
- Chem 1A............6
- Math 25A...........5

Recommended Courses: CS 18/18L; Math 31

Ph 20A/20AL........5

Third Semester
- Chem 1B............6
- Math 25B...........5
- Ph 20A/20AL........5

Second Semester
- Chem 1B............6
- Math 25B...........5
- Ph 20A/20AL........5

See Degree Requirements and Transfer Information section for General Education requirements.

Physics Courses
PH 1 -- 3 Units
Descriptive Physics
Class Hours: 3 lecture
This is an introductory course in the concepts of physics, taught with a minimum of mathematics. Lecture material is reinforced by the use of everyday examples and lecture demonstrations. Topics include: classical mechanics, the properties of matter, heat, sound, electricity
PH 1L -- 1 Unit
Descriptive Physics Laboratory
Prerequisite: Prior or concurrent enrollment in Ph 1
Class Hours: 3 laboratory
This is an introductory laboratory course in the elements of classical and modern physics for nonscience majors. The topics to be covered are mechanics, electricity, wave motion, heat, light, and atomic and nuclear physics. Transfer credit: CSU; UC

PH 5 -- 3 Units
Radiation Physics
Prerequisite: Math 1 or equivalent
Corequisite: Ph 5L
Class Hours: 3 lecture
This course is an introduction to mechanics, electricity, magnetism and atomic physics. Emphasis is placed on the fundamentals of x-ray production and characteristics. This course is primarily designed for the student majoring in Radiation Technology.

PH 5L -- 1 Unit
Radiation Physics Laboratory
Prerequisite: Math 1 or equivalent
Corequisite: Ph 5
Class Hours: 3 laboratory
This is a laboratory course designed to be taken concurrently with the Radiation Physics lecture. Emphasis is placed on principles of mechanics, electricity and magnetism, atomic physics and x-ray physics.

PH 10A -- 4 Units
General Physics I
Prerequisite: Math 4A or Math 6 or Math 7 or equivalent college course, or equivalent skills which may be measured by the college assessment process
Class Hours: 4 lecture
This course is an introduction to the mechanics of solids and fluids, heat, and wave motion, which is designed for students majoring in the life sciences or any other major requiring a noncalculus based laboratory physics course. Transfer credit: CSU; UC credit limitations. See counselor. CAN: PHYS 2 (Ph 10A + 10AL)

PH 10AL -- 1 Unit
General Physics I Laboratory
Prerequisite: Concurrent enrollment in Ph 10A
Class Hours: 3 laboratory
This is a laboratory course during which the student performs experiments in classical mechanics, heat and wave motion. It is designed for students majoring in the life sciences or any other major requiring a non-calculus based laboratory physics course. Transfer credit: CSU; UC credit limitations. See counselor.

PH 10B -- 4 Units
General Physics II
Prerequisite: Ph 10A or equivalent college course
Class Hours: 4 lecture
This course is an introduction to electricity and magnetism, optics and modern physics, which is designed for students majoring in the life sciences or any other major requiring a non-calculus based laboratory physics course. Transfer credit: CSU; UC credit limitations. See counselor. CAN: PHYS 4 (Ph 10B + 10BL)

PH 10BL -- 1 Unit
General Physics II Laboratory
Prerequisites: Ph 10A/10AL or equivalent college course
Corequisite: Ph 10B
Class Hours: 3 laboratory
This is a laboratory course during which the students perform experiments in electricity and magnetism, optics and modern physics. It is designed for students majoring in the life sciences or any other major requiring a non-calculus based laboratory physics course. Transfer credit: CSU; UC credit limitations. See counselor.

PH 20A -- 4 Units
Mechanics of Solids and Fluids
Prerequisites: Math 25A or equivalent college course, and Ph 10A or equivalent college course, or one year of high school physics
Corequisite: Math 25B
Class Hours: 4 lecture
This course is an introductory study of statics and dynamics of particles and rigid bodies and an introduction to hydrostatics and hydrodynamics. Ph 20A uses calculus and is designed for students majoring in physics, engineering, mathematics, chemistry, computer science and the biology A.S. degree program. Transfer credit: CSU; UC credit limitations. See counselor. CAN: PHYS 8 (Ph 20A + 20AL)

PH 20AL -- 1 Unit
Mechanics of Solids and Fluids Laboratory
Prerequisites: Math 25A and Ph 10A or equivalent
Corequisite: Math 25B, Ph 20A
Class Hours: 3 laboratory
This is a laboratory course in which the students perform experiments in dynamics of particles and rigid bodies, hydrostatics, and hydrodynamics. Transfer credit: CSU; UC credit limitations. See counselor.

PH 20B -- 4 Units
Electricity and Magnetism
Prerequisites: Math 25B and Ph 20A
Corequisite: Math 25C
Class Hours: 4 lecture
This course is an introduction to electricity and magnetism. Emphasis is placed on understanding of field theory and applications of calculus. Topics include: electric and magnetic fields; Coulomb's Law; Gauss' Law; Faraday's Law; Ampere's Law; Biot-Savart Law; Ohm's Law; A.C. and D.C. circuits; and an introduction to electronic devices. Transfer credit: CSU; UC credit limitations. See counselor. CAN: PHYS 12 (Ph 20B + 20BL)

PH 20BL -- 1 Unit
Electricity and Magnetism Laboratory
Prerequisites: Math 25B and Ph 20A/20AL
Corequisites: Math 25C, Ph 20B
Class Hours: 3 laboratory
This is a laboratory course designed to be taken concurrently with the Ph 20B lecture. Emphasis is placed on understanding of field theory and introducing the student to electronic measurements, A.C. and D.C. circuits, basic analog circuits and devices. Transfer credit: CSU; UC credit limitations. See counselor.

PH 20C -- 4 Units
Wave Motion, Heat, Optics and Modern Physics
Prerequisites: Math 25C and Ph 20B
Class Hours: 4 lecture
This course is an introduction to wave motion (sound and light), physical and isomertical optics, thermodynamics, selected topics in quantum mechanics, and special relativity. The solution of problems utilizing calculus and differential equations is demonstrated. Transfer credit: CSU; UC credit limitations. See counselor.

PH 20CL -- 1 Unit
Wave Motion, Heat, Optics and Modern Physics Laboratory
Prerequisites: Math 25C and Ph 20B/20BL
Corequisite: Ph 20C
Class Hours: 3 laboratory
This is a laboratory course designed to introduce the student to wave motion, heat, optics and modern physics. Fundamental principles as well as the use of modern laboratory instrumentation will be stressed. Transfer credit: CSU; UC credit limitations. See counselor.

PH 22A/B -- 5-3/5-3 Units
Independent Studies in Physics
Prerequisite: A previous course in Physics
Class Hours: 5-3 tutorial
This course is for students who are interested in furthering their knowledge of physics on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

Physiology

All Physiology courses are listed with the Biology courses. Refer to that section alphabetically for full course information.
Political Science

Political Science, the study of government and politics, leads to an understanding of the institutions of government and the role of citizens and leaders at every level of government.

Career Opportunities
(Post-bachelors degree necessary)
Government Official
Journalist
Foreign Diplomat

Teacher
Attorney
Politician

Faculty

Full-Time
Gerald Bridgeman
Robert Herman

Part-Time
Craig Flanery
Luis Gomez
Rodrigo Hernandez
Jack Miller

Counselors
Mike Johnson
Mary Martin
Ofelia Romero-Motlagh

POL SC 1 -- 3 Units
Introduction to Government
Class Hours: 3 lecture
This class covers basic principles and major areas of study within political science particularly as they apply to American, federal, state, and local government and politics. The student will do research and writing on special topics and selected political problems will be used to supplement the lectures and discussions. The course is designed for social science majors, behavioral science majors, and others with strong interest in this area. Transfer credit: CSU; UC

POL SC 2 -- 3 Units
Comparative Government
Class Hours: 3 lecture
This course in comparative government examines the variety of material that works to produce a government. Areas of comparison include political culture, recruitment and articulation of interests, political institutions, and the sources and content of public policy. Countries examined include examples drawn from Western Europe, Eastern Europe, Asia, and pre-industrial societies. Transfer credit: CSU; UC

POL SC 3 -- 3 Units
American Government and Politics
Class Hours: 3 lecture
This is an introductory course on the principles and problems of American Government and the political process, with particular emphasis on national government. This course satisfies the Title V United States Constitution requirement and the California state and local government requirement. Transfer credit: CSU; UC; CAN: GOVT 2

POL SC 4 -- 3 Units
International Relations
Class Hours: 3 lecture
This course is a study of relations between sovereign units. It will concentrate on international organization, theoretical proposals toward and possibilities for world peace, the mechanics of politics among nations, and will consider the formation of American foreign policy. Attention will be paid to the relationship between domestic and foreign policy, and to the cultural origins of policy. Transfer credit: CSU; UC

POL SC 7 -- 3 Units
Minority Groups
Class Hours: 3 lecture
This course is a study of political problems which are faced by racial and ethnic minorities in the United States. The focus of the course is to examine the impact and consequences of formal and informal racism, discrimination and sexism which have precluded the full participation of many racial and ethnic groups in the mainstream of American Life. The major emphasis shall be placed on the political process which is often seen as a vehicle for compromising and negotiatating majority-minority relations in an attempt to maintain social equilibrium. Transfer credit: CSU; UC

POL SC 8 -- 3 Units
Political Patterns in the U.S.*
Class Hours: 3 lecture
Fundamental principles of U.S. Government: federal, state and local are studied in theory and practice. Emphasis is on state and local government of the Southwest, with particular attention given to the legislative process, political parties, pressure groups, and implementation of policy at county and municipal levels. Special emphasis is placed on the participation of the Mexican-American in our political institutions. (co-numbered Ch St 8) Transfer credit: CSU; UC

POL SC 10 -- 3 Units
Public Administration and Policy Development*
Prerequisite: Prior course in Social Science
Class Hours: 3 lecture
This course is designed to help the student develop an understanding of what public administration is, how decisions are made in the public bureaucracy, what its tasks are, and how it goes about accomplishing these tasks. In addition to the politics of administrative organization, personnel management, budget administration, public relations and Government service as a career are also discussed. Transfer credit: CSU

POL SC 11 -- 3 Units
Law, Government, and Individual Rights
Class Hours: 3 lecture
This course analyzes the origins, workings, procedures, and policies of our federal and state governments from the perspective of Constitutional law. Particular emphasis is placed in the Judicial System and in the privileges, rights, and obligations of individuals guaranteed by the Constitution. Leading judicial decisions of the Supreme Court will be explored. Transfer credit: CSU

POL SC 22A/B -- 1-3/1-3 Units
Independent Studies in Political Science
Prerequisite: A previous course in Political Science
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of political science on an independent study basis. The project selected must be approved by an instructor; in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

POL SC 60A-Z -- 1-3 Units
Topics in Political Science
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Political Science not covered in detail in the general Political Science course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC credit limitations.

Topics which have been developed include:

60C -- 3 Units
Politics in the Middle East
Class Hours: 3 lecture
This is a survey of political developments and changes in the Middle East with emphasis on the Arab states, Israel, Iran and Turkey. The students will explore the rich historical background of this region touching on its principal cultural contributions, political conflicts before the 20th century, current political processes, economic developments, and main problems confronting the nations of the Middle East.

*These courses are offered periodically.
Psychology

The major in psychology provides a study of the behavior of individuals and groups in contemporary society. The graduate in this major is prepared for positions in research and teaching, counseling, and working with individuals in clinical settings. The major also provides the student with the background for graduate study in the field of psychology and related specialties.

Career Opportunities

(Bachelors degree and post-graduate work required)

- Psychologist
- Administrative Assistant
- Urban Renewal Specialist
- Personnel Assistant
- Social Insurance Representative
- Veterans Claims Examiner
- Rehabilitation Counselor
- Social Service Analyst

- Recreation Specialist
- Social Worker
- Family Counselor
- Mental Health Officer
- Program Analyst
- Sales Personnel
- Advertising Executive
- School Psychologist
- Probation Officer

Faculty

Full-Time

- Franli Bianchino
- Judith Farrell
- Carole Ginet
- Lynn Meschan
- Steven Pollock
- Carol Woodward

Part-Time

- Dan Baldwin
- Deena Case
- Diane DeMarco
- Michael Gardner
- Lynda Honour
- Jeana Ingersoll
- Susan Kapitanoff
- Sally Ponce-O'Rourke
- Anthony Raptis
- Darrel Richards

Counselors

- Frank Bianchino
- Mike Johnson
- Mary Martin
- Lisa Rauman

Psychology Courses

PSYCH 1A -- 3 Units
Introduction to Psychology
Class Hours: 3 lecture

This course is an introduction to the subject matter of Psychology with emphasis on such areas as history and systems, research methodology, biological bases of behavior, sensation and perception, motivation and emotion, learning and memory, cognition and intelligence, personality, stress and health psychology, behavior disorders (psychopathology) and treatments, human sexuality, and life span development, social and environmental psychology. Transfer credit: CSU; UC; CAN: PSY 2

PSYCH 1B -- 5 Units
Introduction to Psychobiology and Experimental Psychology
Prerequisite: Psych 1A
Class Hours: 5 lecture

This course is an introduction to psychobiological and experimental psychology emphasizing the scientific method, basic research design, and the physiological bases of behavior. Individual experimental study is included. Recommended as a second course in the major sequence. Transfer credit: CSU; UC

PSYCH 3 -- 3 Units
Psychology of Interpersonal Relationships
Class Hours: 3 lecture

This course is an orientation in the use of psychological principles applied in understanding human relationships and developing greater self-awareness. Emphasis will be on the nature of humans, human needs and feelings, the processes of personal and social dynamics, mental health, and socialization. A combination of experiential and theoretical approaches is used to increase awareness, understanding, choices, and decision-making. Transfer credit: CSU

PSYCH 4 -- 3 Units
Child Psychology
Class Hours: 3 lecture

The focus of this course is on the psychology of children as well as on the basic principles of developmental psychology. While the major emphasis will be on the child as a person, exploration of the personal, societal, and cultural forces important from birth to puberty will occur. Transfer credit: CSU; UC

PSYCH 5 -- 3 Units
Social Psychology
Class Hours: 3 lecture

This course is a study of social relationships. Topics of study include interpersonal attraction, person perception, long-term relationships, pro-social behavior, attitude formation and change, nature of prejudice, aggression, and conformity. (co-numbered Soc 5) Transfer credit: CSU; UC

PSYCH 7 -- 3 Units
Developmental Psychology (Life Span)*
Class Hours: 3 lecture

This course is an introduction to the physical, emotional, cognitive, social and cultural aspects of development from conception to death. Emphasis will be placed on acquiring an understanding of the processes of development throughout the life span. Normative behaviors for specific ages and developmental stages are examined. Selected theories of development and contemporary issues in development are included. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with CD 30

PSYCH 8 -- 3 Units
Abnormal Psychology*
Class Hours: 3 lecture

This course surveys the field of abnormal psychology. Topics for analysis, study, and discussion include: patterns, causes, and the history of maladaptive behavior; clinical assessment using the current DSM manual; therapies; and prevention of behavioral disorders. Transfer credit: CSU; UC

PSYCH 9 -- 3 Units
Introduction to Gerontology
Class Hours: 3 lecture

This course is an introduction to the study of Gerontology. The course includes a consideration of the physical, psychological, sociological, and economic aspects of aging, as well as, application of basic theory to the current issues and problems involving the older population. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with Psych 30

PSYCH 10 -- 3 Units
Dying and Death
Class Hours: 3 lecture

A survey of the areas, issues, and decisions concerned with dying and death. Topics include: historical and cross-cultural perspectives toward death and dying, the socialization, medical ethics and the health-care system, death over the life span, the law and death, and beyond death after-life concerns. Transfer credit: CSU; UC

PSYCH 11 -- 3 Units
Psychology of Assertion
Class Hours: 3 lecture

This course focuses on openness, honesty, and directness in communication and behavior. Through a study of self concept, perception, emotions, language, non verbal communication, defense mechanisms, and conflict resolution, students learn to identify problem areas and examine alternative behaviors. Students examine options in specific areas, such as expressing anger and other emotions, methods of changing behavior, making requests and saying no, coping with criticism, defining and resolving conflict. Transfer credit: CSU

PSYCH 12 -- 3 Units
Animal Behavior

152
PSYCH 13 -- 3 Units
Human Sexuality
Class Hours: 3 lecture
This course explores the psychological, biological, and sociological aspects of human sexual behavior. Topics include sexual values, roles and lifestyles, contraception, pregnancy, sexually-transmitted diseases, sexual dysfunctions and treatment. Course material will be presented in an explicit, open, scientific and thoughtful manner. Transfer credit: CSU; UC

PSYCH 14 -- 3 Units
Cross-Cultural Psychology
Class Hours: 3 lecture
This course focuses on the impact of cultural and social influences on the psychological development of ethnic groups. The course integrates traditional theoretical approaches in psychology to current cross-cultural research and theory in the study of Latinos, Asian-Americans, African-Americans, and Native Americans. Topics for analysis and discussion include: research methods, identity formation and ethnicity, cognition and intelligence, language development, family and gender roles, psychosocial stressors, behavioral disorders and clinical assessment, cross-cultural counseling techniques, and prejudice, discrimination and reverse discrimination. Transfer credit: CSU; UC

PSYCH 22A/B -- 1-3/1-3 Units
Independent Studies in Psychology
Prerequisite: A previous course in Psychology
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of psychology on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

PSYCH 30 -- 3 Units
Psychological Aspects of Aging*
Class Hours: 3 lecture
This course explores psychodynamic behaviors over the life span with the focus being on the development of the adult. The psychological needs of the aging adult and the responses to these needs by others will be explored. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with Psych 9

PSYCH 60A-Z -- .5-3 Units
Topics in Psychology*
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series each of which deals with a specific topic in psychology not covered in detail in the general Psychology course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC credit limitations

Topics which have been developed include:

60A -- 1 Unit
Biofeedback: Theory and Technique
Class Hours: 16 lecture total
This class is designed for students, educators, and professionals in the community who are interested in the theory, research, and practical applications of biofeedback. Training on biofeedback equipment will supplement academic discussion.

60V -- 3 Units
The Vietnam War
Class Hours: 3 lecture
This course examines the circumstances that led to the American involvement in Vietnam, what happened during that involvement, and what the consequences have been. A variety of literary and filmic materials will aid students as they study this material from the perspectives of history, psychology, and popular culture. (co-numbered Hist 60V, Hum 60V)

*These courses are offered periodically.
Radio/Television

This major is designed for students who plan professional or academic careers in educational or commercial radio or television. The major provides training which leads to positions in management or creative capacities, or in related scholarly areas. Study is directed toward developing competence in specific areas of the mass media professions and providing a general knowledge of mass communication theory.

Career Opportunities

<table>
<thead>
<tr>
<th>Account Executive</th>
<th>Advertising Copy Writer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actor</td>
<td>Makeup Specialist/Artist</td>
</tr>
<tr>
<td>Anchor (News)</td>
<td>ITV Specialist</td>
</tr>
<tr>
<td>Announcer</td>
<td>Program Manager/Director</td>
</tr>
<tr>
<td>Assistant Director</td>
<td>Publicity/Promotion Assistant</td>
</tr>
<tr>
<td>Art Director</td>
<td>Public Relations Assistant</td>
</tr>
<tr>
<td>Audio/Video Engineer</td>
<td>Property Master/Grip</td>
</tr>
<tr>
<td>Camera Operator</td>
<td>Radio-Television Director</td>
</tr>
<tr>
<td>Executive Producer</td>
<td>Operations Manager</td>
</tr>
<tr>
<td>Floor Manager</td>
<td>Technical Director</td>
</tr>
<tr>
<td>Lighting Director</td>
<td>Traffic Director</td>
</tr>
<tr>
<td>Lighting Assistant</td>
<td>Research Specialist</td>
</tr>
<tr>
<td>Media-Librarian</td>
<td>Teleplay Writer</td>
</tr>
<tr>
<td>News Director</td>
<td>Videotape Editor</td>
</tr>
<tr>
<td>News Writer</td>
<td>Station Manager/General Manager</td>
</tr>
<tr>
<td>Reporter</td>
<td>Advertising Sales Director/Manager</td>
</tr>
</tbody>
</table>

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfred Miller</td>
<td>Arthur Lopez</td>
<td>Don Henderson</td>
</tr>
<tr>
<td>Leslie Wieder</td>
<td>Frank Roach</td>
<td>Lisa Rauffman</td>
</tr>
<tr>
<td></td>
<td>Richard Studebaker</td>
<td>Charles Whitten</td>
</tr>
<tr>
<td></td>
<td>Thomas Witt</td>
<td></td>
</tr>
</tbody>
</table>

Radio/Television Courses

<table>
<thead>
<tr>
<th>RT 1 -- 3 Units</th>
<th>Media and Society</th>
<th>Class Hours: 3 lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media and Society</td>
<td></td>
<td>This course surveys the history and nature of print and electronic media in America. It will examine the social, political and cultural implications of media. (co-numbered Journ 1) Transfer credit: CSU; UC CAN: JOURN 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RT 2A -- 3 Units</th>
<th>Broadcast Studio Operations</th>
<th>Class Hours: 2 lecture, 3 laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadcast Studio Operations</td>
<td></td>
<td>This class covers instruction in basic studio and control room equipment and operation. Students gain practical experience in the various aspects of studio production, including lighting, camera operation, switcher-fader operation, graphics, videotape operation, and audio. A comprehensive review and explanation, and practical application of program patterns, studio procedures, and ancillary activities such as set building, floor managing, etc., will be a part of the course. Transfer credit: CSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RT 2B -- 3 Units</th>
<th>Electronic Field Production/Post Production</th>
<th>Prerequisite: RT 2A</th>
<th>Class Hours: 2 lecture, 3 laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic Field Production/Post Production</td>
<td></td>
<td>This class provides the student with an orientation to contemporary remote television equipment as well as editing equipment. Field production and extensive post-production activities will be a major part of the class. Additional skills in ancillary activities such as lighting, audio, and graphics will be developed. Transfer credit: CSU</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RT 3A -- 3 Units</th>
<th>Television Production Workshop</th>
<th>Prerequisite: RT 2B</th>
<th>Class Hours: 2 lecture, 3 laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Television Production Workshop</td>
<td></td>
<td>This course involves intermediate work in production, camera work, technical direction, lighting, etc. The creation of new program concepts and types is stressed. Each student is responsible for producing an experimental TV program. Transfer credit: CSU</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RT 3B -- 3 Units</th>
<th>Television Directing and Editing</th>
<th>Prerequisite: RT 3A</th>
<th>Class Hours: 2 lecture, 3 laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Television Directing and Editing</td>
<td></td>
<td>This course covers advanced directing and editing of special projects and experimental television programs. Each student is responsible for producing a variety of television programs. Transfer credit: CSU</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RT 5 -- 3 Units</th>
<th>Radio-Television Writing</th>
<th>Prerequisite: Engi 1A or equivalent</th>
<th>Class Hours: 3 lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio-Television Writing</td>
<td></td>
<td>This course deals with the preparation and analysis of dramatic scripts, program formats, public service announcements, local news, commercials, continuity, discussion programs, special events, talks and interviews. Training is given in the fundamentals of script format, professional methods, and the ethics and restrictions involved in the broadcasting media. (co-numbered Engi 5) Transfer credit: CSU</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RT 7A -- 3 Units</th>
<th>Radio Production Workshop</th>
<th>Prerequisite: RT 1 or concurrent enrollment</th>
<th>Class Hours: 2 lecture, 3 laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Production Workshop</td>
<td></td>
<td>This class offers integrated work in various radio broadcasting functions including announcing, acting, disc jockeying, basic writing, program direction, program production, advertising, radio interviewing, and station operations. Transfer credit: CSU</td>
<td></td>
</tr>
</tbody>
</table>

See Degree Requirements and Transfer Information section for General Education requirements.
RT 7B -- 3 Units
Advanced Radio Production
Prerequisite: RT 7A or equivalent
Class Hours: 2 lecture, 3 laboratory
This is an advanced practical course designed to prepare students for entry-level positions as a radio announcer and/or newscaster at a radio station outside the top 20 major radio markets. Students are given basic background needed in: developing a radio personality; working with and developing music formats; editing, re-writing, and gathering news to function as a broadcast journalist; and preparing an audition tape and resume for use in the job market. Transfer credit: CSU

RT 8 -- 3 Units
Voice and Diction
Class Hours: 3 lecture
Designed for Theatre, Forensics and Broadcasting students but open to all others, this course provides instruction in correct pronunciation, breathing, and control techniques. It includes the theory and practice of voice control as well as the study of regional and foreign dialects. May be taken two (2) times for credit. (co-numbered Spch 3, ThA 3) Transfer credit: CSU; UC maximum credit allowed -- 12 units combined with * Theatre Arts courses

RT 9 -- 3 Units
Acting for Film and TV
Class Hours: 2 lecture, 3 laboratory
Students will learn the techniques required in acting before the camera, blocking, movement, rapid line learning, etc., as it pertains to film and TV, and as it varies from stage work. Students will be taught microphone techniques and opportunities to perform in student-directed films and television shows. May be taken four (4) times for credit. (co-numbered ThA 9) Transfer credit: CSU; UC maximum credit allowed -- 12 units combined with * Theatre Arts courses

RT 12 -- 3 Units
Broadcast Journalism
Class Hours: 3 lecture
In this advanced practical course in the preparation of radio and television newscasts, students develop interviewing skills, write original news copy and edit and rewrite wire service copy for on-air purposes. Actual field work is performed using remote recording equipment. (co-numbered Journ 12) Transfer credit: CSU

RT 22A/B -- 1-3/1-3 Units
Independent Studies in Radio/Television
Prerequisite: A previous course in Radio/Television
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of radio/television on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

RT 60A-Z -- 1-3 Units
Topics in Radio/Television
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Radio/Television not covered in detail in the general Radio/Television course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU

Radiologic Technology
All Radiologic Technology courses are listed with the Health Science courses. Refer to that section alphabetically for full course information.
Reading

Reading courses are provided to assist students to improve their basic abilities to function effectively in all classes.

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barbara Baker</td>
<td>Jeanette Hosek</td>
<td>Rick Cardoni</td>
</tr>
<tr>
<td>Michael Strumpf</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reading Courses

READ 2 -- 3 Units
Intermediate Reading Skills
Prerequisite: Satisfactory grade in Read 1, or equivalent skills which may be measured by the college assessment process
Class Hours: 3 lecture
This course is designed for students with moderate reading problems as measured by standardized and individualized tests. Instructional activities and materials are designed to enhance both comprehension and speed. In addition to reinforcing the basic reading skills, this course will focus on such areas as reading rate variation, critical reading techniques, vocabulary enrichment, study skills, and reducing test anxieties. Pre- and post-testing will measure progress and achievement. (College credit only. Does not apply toward a degree.)

READ 10 -- 3 Units
Word Power
Class Hours: 3 lecture
This comprehensive course is designed for students who wish to develop their listening, speaking, reading, and writing vocabularies. Instruction will include the development of word analysis skills through a study of Greek and Latin roots, prefixes, and suffixes. Vocabulary is expanded through a study of synonyms, antonyms, diction, word origins, contextual clues, and college level and professional vocabularies. Continuous evaluation will measure progress. (College credit only. Does not apply toward a degree.)
Science and Technology

Science and Technology provides students with an introduction to a variety of significant topics and experiments in the pure and applied sciences. The purpose of the classes is to increase student interest in science and technology and to explore a diversity of challenging careers.

Science and Technology Courses

ScTech 1A/B -- 5-2 Units
Introduction to High Technology
Class Hours: 4-16 lecture, 12-48 laboratory total
This course introduces college students or high school students enrolled in cooperative programs to a variety of high technology subjects taught by various college departments. Specific topics will be selected depending on the particular interests and needs of the enrolled students. ScTech 1A may be taken for a maximum of 4 units. ScTech 1B may be taken for a maximum of 4 units.
Faculty
Part-Time
Marilyn Carpenter

Sign Language Courses

SL 1 -- 3 Units
Beginning American Sign Language I
Class Hours: 3 lecture
This is an introductory course to American Sign Language. This course includes basic vocabulary and finger spelling with an emphasis on comprehension skills, grammatical structure and information relating to deaf culture. Transfer credit: CSU, UC

SL 2 -- 3 Units
Beginning American Sign Language II
Prerequisite: SL 1 or equivalent
Class Hours: 3 lecture
This is a continuation of the Beginning American Sign Language I. This course includes development of comprehension and expressive skills, vocabulary and grammatical structure, along with the introduction of basic anatomy of the ear and audiometry. Transfer credit: CSU, UC
The major in Social Sciences permits undergraduates to explore a broad spectrum of the social sciences in order to obtain an acquaintance with their sociocultural, economic, and political aspects and to develop a greater concentration in one of these areas of study. This major will satisfy much of the required liberal studies background for students who are planning to teach in elementary schools.

Faculty
Counselor
Mary Martin

Social Science
Associate in Arts Degree
Areas of Emphasis:
Geography, History, Philosophy, Political Science

This program is designed to award an A.A. degree in Social Science with an emphasis in either Geography, History, Philosophy, or Political Science. The basic requirements for the degree include completion of 21 units from the following:

Required Courses:

| AREA A: One three-unit course from each of the four discipline offerings: |
| Geography: 2, 3, 4, 7 | History: Any course offered, except 22 or the 60 series | Philosophy: 1, 2, 3, 4, 6 | Political Science: 1, 2, Urban 1A |
| Units | 3 | 3 | 3 |

AREA B: Two additional three-unit courses from any one discipline below. These additional units determine the student's degree emphasis.

Geography: Any six (6) units, except those fulfilling Physical Science requirements.
History: Any six (6) units.
Philosophy: Any six (6) units.
Political Science: Any six (6) units including Urban 1A, 1B.

AREA C: One additional three-unit course from number 1 or number 2, below:
1. One (1) additional three-unit course from Area B outside the student's degree emphasis, or
2. One (1) additional three-unit course from the following:
   Anthropology: 2, 4,
   Psychology: 1A, 5, 7,
   Sociology: 1, 2, 3, 5, 6, 8.

Total minimum units required in major area -- 21

See Degree Requirements and Transfer Information section for General Education requirements.
Sociology offers much to the student who is eager to understand the web and rhythm of human behavior. From intimate, personal, and family relationships to international corporation activities; from marginality, deviance and crime to recreation religion and medicine; few disciplines have such broad scope and relevance.

**Career Opportunities**

(Bachelors or advanced degree necessary)

- Metropolitan Development Representative: Youth Counselor
- Metropolitan Cities Representative: Statistician
- Public Relations Consultant: Criminologist
- Employment Counselor: Social Worker
- Interviewer/Researcher: Case Worker
- Urban Renewal Representative: Counselor
- Correctional Counselor: Population Analyst
- Industrial Sociologist: Probation Officer
- Disability Insurance Trainee: Recreation Specialist
- Personnel Management Specialist: Claims Examiner

**Faculty**

- Full-Time: Cynthia Barnet-Shelby, Diane Brabant, Carole Ginett, Linda McDill
- Part-Time: Counselors

**Sociology Courses**

- **SOC 1 -- 3 Units**
  Introduction to Sociology
  Class Hours: 3 lecture
  This course is an analysis of human interactions through a study of cultural origins, community organization, collective behavior, social change, institutional growth and social movements as interpreted by the major theoretical constructs in Sociology. Transfer credit: CSU; UC; CAN: SOC 2

- **SOC 2 -- 3 Units**
  Social Problems
  Class Hours: 3 lecture
  This course covers sociological analysis of the causes and consequences of social problems confronting contemporary U.S. society such as intergroup conflict, sexism, racism, ageism, sexual deviance, poverty, crime delinquency, substance abuse, cults (religious, political, psychological), terrorism, health and environmental degradation. Students examine the methodology and use of human skills and resources applied to the study and solution of social problems. Transfer credit: CSU; UC; CAN: SOC 4

- **SOC 3 -- 3 Units**
  Sociological Analysis (S)
  Prerequisite: Soc 1
  Class Hours: 3 lecture
  Students will examine the nature and logic of the scientific analysis of society and social institutions. Conceptualization, operationalization and hypothesis construction will be studied as well as the logic of sampling and types of sampling designs. Students will be required to analyze specific data collected in the field. Transfer credit: CSU; UC

- **SOC 4 -- 3 Units**
  Intimacy, Relationships and Commitment
  Class Hours: 3 lecture
  This course explores the theories and functions of committed relationships and examines various perspectives on marriage and the family. Sex roles, socialization, sexuality, the singe life, the choice to marry, parenting, dual-career families, conflict in relationships, separation and divorce, remarriage, and alternative choices are studied from theoretical, historical, cross cultural, sociological and personal perspectives. Transfer credit: CSU; UC pending

- **SOC 5 -- 3 Units**
  Social Psychology
  Class Hours: 3 lecture
  This course is a study of social relationships. Topics of study include interpersonal attraction, person perception, long-term relationships, pro-social behavior, attitude formation and change, nature of prejudice, aggression, and conformity. (co-numbered Psych 5) Transfer credit: CSU; UC

- **SOC 6 -- 3 Units**
  The Chicano in Contemporary Society
  Class Hours: 3 lecture
  This course is an analysis of the socioeconomic and political problems confronting the Chicano with emphasis on proposed solutions. Similarities to other ethnic groups will be incorporated in this analysis. Particular focus is placed on the effects that social institutions have had on the ethnic communities of the Southwest. (co-numbered Ch St 1) Transfer credit: CSU; UC

- **SOC 7 -- 3 Units**
  Women in American Society
  Class Hours: 3 lecture
  A sociological analysis of the commonalities and differences in women's experiences and their role in the shaping of American culture. Particular focus is on gendered ethnicity and the contributions of Anglo, African-American, Native American and Latino women. Feminism and various other sociological theories and methodologies regarding gender are examined. Transfer credit: CSU; UC

- **SOC 8 -- 3 Units**
  Ethnicity, Class, and Gender
  Class Hours: 3 lecture
  This course is a sociological examination of discrimination and inequality within a society that values equality, freedom, and justice. It looks at the diversity in American society and the nature of relationships among racial and ethnic groups. The course also explores the variety of experiences within each group, paying close attention to how the racial and ethnic experience varies between males and females. Transfer credit: CSU; UC

- **SOC 22A/B -- 1-3/1-3 Units**
  Independent Studies in Sociology
  Prerequisite: A previous course in Sociology
  Class Hours: 1-3 tutorial
  This course is for students who are interested in furthering their knowledge of sociology on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

- **SOC 60A-Z -- 1-3 Units**
  Topics in Sociology
  Prerequisites: To be determined with each Topic
  This is a special series of courses each of which deals with a specific topic in Sociology not covered in detail in the general Sociology course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU; UC credit limitations.

  Topics which have been developed include:

  - **60A -- 3 Units**
    Sociological Field Methods
    Prerequisite: Soc 1 or Soc 2, or concurrent enrollment in either course
    Class Hours: 1 lecture, 6 laboratory
    This course is for students who desire to expand their knowledge of sociological theory through both classroom and on-site involvement within governmental and/or social agencies within the community.

*These courses are offered periodically.*
Study in the Spanish language provides specialists to work in areas such as anthropology, economics, political science, literature, and sociology. While teaching is the principle area of employment, other careers may be found in interpreting, translating, research, diplomacy, libraries, and the publishing business.

**Career Opportunities**

- B.A. Level
- Translator
- Diplomatic Office
- Tutor
- Editor
- Foreign-Exchange Trader
- Foreign Clerk
- Foreign Service Officer

**Faculty**

- **Full-Time**
  - Part-Time: Victoria Albright, Maria Brack, Ricardo Chavez, Damiano Marano, Mashidu Ndole, David Pardess, Renee Rosenberg, Eduard Thron
  - Counselor: Olilia Romero-Motlach

**Spanish Courses**

**SPN 1 -- 4 Units**
**Elementary Spanish I**

**Class Hours:** 4 lecture, 1 laboratory by arrangement

This course is an intensive study of the Spanish language and culture; special emphasis will be given to the skills and knowledge necessary for speaking and writing Spanish and to the unique nature of the people and their history. The language laboratory will be used extensively and students will be expected to arrange an additional hour of language lab each week. **Transfer credit:** CSU; UC

**SPN 1A/B -- 2/2 Units**
**Elementary Spanish**

Prerequisite: None for 1A. Spn 1A or one year of high school Spanish for Spn 1B

**Class Hours:** 2 lecture, 1 laboratory by arrangement

Spanish 1A/1B offers students an opportunity to take Spanish 1 in two semesters rather than one. The skills and content covered are the same, but offered at half the pace of Spanish 1. Students receiving credit in the Spanish 1A/1B sequence may not receive credit in Spanish 1. **Transfer credit:** CSU; UC

**SPN 2 -- 4 Units**
**Elementary Spanish I**

Prerequisite: Spn 1 or two years of high school Spanish with grades of C or better

**Class Hours:** 4 lecture, 1 laboratory by arrangement

This course covers continued intensive study of the Spanish language and culture; special emphasis will be given to the skills and knowledge necessary for speaking and writing Spanish. Study will cover the unique nature of the people and their history. The language laboratory will be used extensively and students will be expected to arrange an additional hour of language lab each week. **Transfer credit:** CSU; UC

**SPN 3 -- 4 Units**
**Intermediate Spanish I**

Prerequisite: Spn 2 or three years of high school Spanish with grades of C or better

**Class Hours:** 4 lecture, 1 laboratory by arrangement

Students will continue additional study of spoken and written Spanish and Spanish culture. They will develop the ability to read with greater ease by study and discussion in Spanish representative literary works. Continued emphasis will be placed on oral and written expression. All students will be expected to spend an additional hour per week of study in the language laboratory. **Transfer credit:** CSU; UC

**SPN 4 -- 4 Units**
**Intermediate Spanish II**

Prerequisite: Spn 3 or four years of high school Spanish

**Class Hours:** 4 lecture, 1 laboratory by arrangement

This course covers advanced study of spoken and written Spanish and Spanish culture. Students will develop the ability to read with greater ease by study and discussion in Spanish representative literary works. Continued emphasis will be placed on oral and written expression. All students will be expected to spend an additional hour per week of study in the language laboratory. **Transfer credit:** CSU; UC

**SPN 5A -- 3 Units**
**Spanish for the Spanish Speaking**

Prerequisite: Basic communication skills in Spanish

**Class Hours:** 3 lecture

This is a beginning course designed for students who are able to understand and speak Spanish as used in everyday situations. Emphasis is on speaking, reading, writing and the special problems that a Spanish native speaker might have with grammatical structure and vocabulary. Reading and discussion of historical and cultural elements of the Spanish-speaking world are included. **Transfer credit:** CSU; UC

**SPN 22A/B -- 1-3/1-3 Units**
**Independent Studies in Spanish**

Prerequisite: A previous course in Spanish

**Class Hours:** 1-3 tutorial

This course is for students who are interested in furthering their knowledge of Spanish on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. **Transfer credit:** CSU; UC

**SPN 31A -- 3 Units**
**Elementary Conversational Spanish**

**Class Hours:** 3 lecture

This is an introductory course for nonnative speakers of Spanish, including study of elementary grammar and principles of usage. Designed for students who wish to understand and use Spanish in practical situations. May be taken two (2) times for credit.

**SPN 31B -- 3 Units**
**Elementary Conversational Spanish**

Prerequisite: Spn 31A or equivalent

**Class Hours:** 3 lecture

This is an intermediate course for nonnative speakers of Spanish. It includes study of grammar and principles of usage, and is designed for students who have some basic conversational Spanish, but who wish to continue work in this area. May be taken two (2) times for credit.

**SPN 31C -- 3 Units**
**Elementary Conversational Spanish**

Prerequisite: Spn 31B or equivalent

**Class Hours:** 3 lecture

This is the most advanced of the introductory conversation classes for nonnative speakers. It is designed for those who wish to continue developing their oral skills and includes study of grammar and principles of usage.

**SPN 32 -- 3 Units**
**Spanish for Public Employees**

**Class Hours:** 3 lecture

This course covers a study of communication skills for public employees who function in a bilingual situation. Emphasis is on practical and instructional vocabulary. The course is designed to be adapted to the needs of each employee group.
SPN 41 -- 3 Units
Intermediate Conversational Spanish
Prerequisite: Spn 2 or equivalent
Class Hours: 3 lecture

This course is designed for nonnative Spanish speakers who already have a knowledge of basic grammar. It is conducted in Spanish and provides students the opportunity to develop oral skills while consolidating grammar and building vocabulary. A variety of topics are discussed. The class may be taken concurrently with Spanish 3. Transfer credit: CSU; UC
Special Education/Learning Skills

A wide range of both special education and learning skills courses are provided for students with specially identified needs.

Faculty

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
<th>Counselors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Janet Andrieue</td>
<td>Susan Baker</td>
<td>Rick Cardoni</td>
</tr>
<tr>
<td>Sherry D'Attilie</td>
<td>Marilyn Carpenter</td>
<td>Mary Martin</td>
</tr>
<tr>
<td>Norma Letinsky</td>
<td>Stanton Lutton</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Melanie Masters</td>
<td></td>
</tr>
</tbody>
</table>

Adapted Computer Technology Courses

ACT 1 -- 2 Units

Computer Access Evaluation
Prerequisite: Eligibility for Disabled Student Programs
Class Hours: 1 lecture, 3 laboratory
This is a self-paced course which evaluates the students needs for special adaptations required to achieve access to the personal computer. Adaptations will be developed based on the students identified needs and using a variety of specialized hardware and software programs. (College credit only. Does not apply toward a degree.)

ACT 2 -- 2 Units

Adapted Keyboarding
Prerequisite: ACT 1 or equivalent
Class Hours: 1 lecture, 3 laboratory
This course is designed to teach keyboarding basics to disabled students who must use adaptive technologies for successful access to the keyboard or screen and/or who are unable to compete successfully in mainstream typing classes. May be taken two (2) times for credit. (College credit only. Does not apply toward a degree.)

ACT 3A -- 2 Units

Computer Access I - Beginning
Prerequisite: ACT 2 or equivalent
Class Hours: 1 lecture, 3 laboratory
This course provides training in the use of computer access technologies which enhance a disabled student's ability to access and use microcomputers. The course will familiarize students with basic concepts of word processing used by the majority of industry-standard word processors; e.g., WordStar, WordPerfect. May be taken two (2) times for credit. (College credit only. Does not apply toward a degree.)

ACT 3B -- 2 Units

Computer Access II - Intermediate
Prerequisite: ACT 3A or equivalent
Class Hours: 1 lecture, 3 laboratory
This course provides training in the use of computer access skills through the completion of assignments of projects. May be taken two (2) times for credit. (College credit only. Does not apply toward a degree.)

ACT 4 -- 2 Units

Introduction to Computers for Disabled Students
Prerequisite: ACT 2 or concurrent enrollment, or knowledge of the keyboard; Acceptance to the Learning Disabilities Program
Class Hours: 1 lecture/3 laboratory
This course is an introduction to using a personal computer. It will cover basic computer terminology and functions, the Windows environment, and basic word processing. This course is designed for disabled students with little or no computer experience. May be taken two (2) times for credit.

Learning Skills Courses

In order to be admitted to the Learning Disabilities Program, students must meet the California Community College Learning Disability Guidelines criteria. Program staff provide assessments to determine student eligibility.

LS 1 -- 1.5 Units
Assessment of Learning Skills
Class Hours: 3 lecture for 8 weeks
This is an eight-week course designed for assessment and tutoring of learning disabled students by a specially trained staff. Specialized techniques, materials, texts, and audio-visual equipment are utilized to teach or assess fundamental skills and to support academic instruction for students with special learning styles. (College credit only. Does not apply toward a degree.)

LS 2 -- 3 Units
Basic Writing Skills
Prerequisite: Acceptance to the Learning Disabilities Program or concurrent enrollment in LS 1 or LS 20
Corequisite: Concurrent enrollment in LS 14
Class Hours: 3 lecture
This foundation writing course is designed to improve basic writing skills, improve creative thinking, and develop and improve language and intellectual capabilities. It covers basic grammar and usage necessary for writing simple and complex sentences, developing short paragraphs and simple essays. May be taken two (2) times for credit. (College credit only. Does not apply toward a degree.)

LS 3 -- 3 Units
Study Skills
Class Hours: 3 lecture
This course focuses upon the fundamental principles of study skills. It is designed for those students who need a specialized approach to study skills. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

LS 4 -- 3 Units
Reading and Reasoning
Corequisite: Concurrent enrollment in LS 14
Class Hours: 3 lecture
This course is aimed at developing critical thinking skills, inferential comprehension and problem-solving abilities in the area of reading. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

LS 5 -- 3 Units
Cognitive Retraining
Corequisite: Concurrent enrollment in LS 14
Class Hours: 3 lecture
This highly-structured cognitive retraining class will consist of receiving, associating and expressing language, through multilensatory approaches. This course is especially developed for students with acquired brain injuries. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

LS 6 -- 3 Units
Techniques of Problem Solving/Language
Prerequisite: Acceptance to the Learning Disabilities Program or concurrent enrollment in LS 1 or LS 20
Class Hours: 3 lecture
This foundation course is designed to improve creative thinking, problem solving, language, and intellectual capabilities. It utilizes AV materials in the language lab as well as individual instruction in the development of critical thinking. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

LS 7 -- 3 Units
Basic Math Skills
Prerequisite: Acceptance to the Learning Disabilities Program or concurrent enrollment in LS 1 or LS 20
Corequisite: Concurrent enrollment in LS 14
Class Hours: 3 lecture
This foundation math course is designed to develop the learning disabled student's ability to perform arithmetic computation and to develop mathematical skills needed for pre-algebra and algebra courses. The instruction is individualized and paced according to the student's needs. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)
LS 8 -- 3 Units
Spelling Improvement
Class Hours: 3 lecture
In this foundation course designed to improve spelling efficiency, special emphasis will be placed on developing spelling competence, with everyday words used in oral conversation and written themes. (College credit only. Does not apply toward a degree.)

LS 9 -- 3 Units
Personal Development
Class Hours: 3 lecture
This course provides an opportunity for people to meet in a group to discuss the varied aspects of developing personal skills in dealing with disability related issues including: coping with becoming disabled, interpersonal relationships, assertiveness, risk taking and other issues relevant to the disabled population. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

LS 10 -- 3 Units
Vocabulary Building
Prerequisite: Acceptance to the Learning Disabilities Program
Class Hours: 3 lecture
In this foundation course designed to improve skills, special focus will be placed upon understanding the meaning and origin of "common" basic language words. (College credit only. Does not apply toward a degree.)

LS 12 -- 1-3 Units
Tutoring Methods
Class Hours: 1-3 lecture
This basic tutoring foundation course is designed to give tutors the techniques to deal with special learning problems. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

LS 20 -- .5-1.5 Units
Assessment of Learning Skills/Lab*
Prerequisite: Students must have a learning or physical disability
Class Hours: 1.5-4.5 laboratory
This is open lab for the assessment and tutoring of learning disabled students by specially trained staff. Specialized techniques, materials, texts, and audio-visual equipment are utilized to teach or assess fundamental skills and to support academic instruction for students with special learning style. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

Special Education Courses

SP ED 1 -- 3 Units
Survey of Disabilities
Class Hours: 3 lecture
This course is an overview of historical, social, medical, recreational, and educational implications of various physical and learning disabilities. Practical experience in simulated situations is gained to provide insights in the area of disabilities. The course is designed for the disabled student or anyone interested in working with the disabled. Transfer credit: CSU

SP ED 2 -- 3 Units
Independent Living Skills
Class Hours: 3 lecture
This course is designed to provide the disabled student with a variety of practical skills and knowledge about living independently. It includes such things as consumer education, how to work within a budget, adapted homemaking skills and other essential information designed to help the disabled student who wants to be self-sufficient. (College credit only. Does not apply toward a degree.)

SP ED 4 -- 1-3 Units
Speech Therapy
Prerequisite: Evaluation by speech pathologist
Class Hours: 1-3 lecture
This course is designed to provide speech therapy for students who are experiencing difficulty with their speech including lisping, stuttering and other related speech problems. May be taken four (4) times for credit. (College credit only. Does not apply toward a degree.)

SP ED 5A -- 2 Units
Introduction to Visually Impaired/Braille
Class Hours: 1 lecture, 3 laboratory
This course is designed for those interested in a basic knowledge of the visually impaired and of Braille. An overview of materials, services, and daily living skills needed by the blind and visually impaired will be included. (College credit only. Does not apply toward a degree.)

SP ED 5B -- 2 Units
Intermediate Braille
Prerequisite: SP Ed 5A
Class Hours: 1 lecture, 3 laboratory
This is an advanced course in Braille designed for those students interested in improving their basic Braille skills for their own use or for working with the visually impaired. (College credit only. Does not apply toward a degree.)

SP ED 20 -- 1.5 Units
Adapted Physical Education
Class Hours: 1 lecture, 2 activity
This is a specialized course designed to meet the needs of students who are unable to participate in regular physical activity classes. Students will be evaluated by the college physician as to the type of physical activity in which they may participate. Each student will be given individual attention in terms of an adapted fitness program. May be taken four (4) times for credit. Transfer credit: CSU; UC maximum credit allowed -- 4 units combined with * Physical Education courses.

SP ED 22A/B -- 1-3/1-3 Units
Independent Studies in Special Education
Prerequisite: A previous course in Special Education
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of special education on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU

SP ED 24 -- 1.5 Units
Self-Defense for the Disabled
Class Hours: 1 lecture, 2 activity
This course is designed to provide disabled students with techniques of self-defense based on their individual physical capabilities and resources. May be taken four (4) times for credit. Transfer credit: CSU; UC maximum credit allowed -- 4 units combined with * Physical Education courses.

SP ED 31 -- 2 Units
Pre-Vocational Skills
Class Hours: 2 lecture
This class is for functionally-limited students who have none or very limited work experience. It is an introduction to the world of work, basics of job seeking, employment and vocabulary, employer/employee rights and attitudes, etc. (College credit only. Does not apply toward a degree.)

SP ED 32 -- 2 Units
Job Seeking Skills
Class Hours: 2 lecture
This course is for disabled students who wish to improve their job seeking skills and become better acquainted with their rights and obligations as employees. Topics will include decision making, interview techniques, strategies for filling out an application, and employer/employee responsibilities. (College credit only. Does not apply toward a degree.)

SP ED 33 -- 1.5 Units
Career Exploration
Class Hours: 1 lecture, 1.5 laboratory
This class is designed to provide disabled persons opportunities to explore and observe occupational areas in which they have expressed career interest. Transfer credit: CSU
Speech

Instruction in speech is both a fundamental skill for all students to possess in following a successful education path and a professional talent that is vital to many careers.

Career Opportunities
(Post-bachelors degree necessary)
Lawyer
Politician
Management Trainee
Speech Therapist

Linguist
Lecturer
Sales

Faculty
Full-Time
Charlene Arnold
Stephen Doyle
Roland Petrello
Richard Strong
James Wyman

Part-Time
Marjorie Berg
Drew Lobenstein
John Matteson

Counselors
Don Henderson
Lisa Raufman

Speech Courses

SPCH 1 -- 3 Units
Introduction to Speech
Class Hours: 3 lecture
This course is designed to prepare students to be effective oral communicators in a public speaking context through instruction in basic communication theory, appropriate delivery skills, thorough research, and common organizational patterns. Course also offers practical training in feedback and listening skills. Transfer credit: CSU; UC

SPCH 2 -- 3 Units
Elements of Public Speaking
Prerequisite: Spch 1 or equivalent
Class Hours: 3 lecture
Students in this class prepare and make formal delivery of various types of speeches, particularly those types requiring persuasive rhetoric; special attention is given to content and organization, audience motivation, and evaluation. Required of speech majors. Transfer credit: CSU; UC

SPCH 3 -- 3 Units
Voice and Diction
Class Hours: 3 lecture
Designed for Theatre, Forensics and Broadcasting students but open to all others, this course provides instruction in correct pronunciation, breathing, and control techniques. It includes the theory and practice of voice control as well as the study of regional and foreign dialects. May be taken two (2) times for credit. (co-numbered RT 8, ThA 3) Transfer credit: CSU; UC maximum credit allowed -- 12 units combined with * Theatre Arts courses

SPCH 4 -- 3 Units
Introduction to Interpersonal Communications
Class Hours: 3 lecture
This course is concerned with the dynamics of interpersonal communication. Symbolic interaction, nonverbal communication, self-perception, listening skills, conflict resolution, and problem solving will be the main topics studied. Transfer credit: CSU

SPCH 5 -- 3 Units
Elementary Oral Interpretation
Class Hours: 3 lecture
This course covers principles and techniques of interpretive reading of prose with understanding and appreciation and evaluation of the literature selected for reading. This is a performance class. Transfer credit: CSU; UC

SPCH 7 -- 3 Units
Argumentation and Debate
Class Hours: 3 lecture
This class is a course in the theory, methodology, and practice of critical listening, critical thinking and oral argument. The course includes training in propositions, methods of analysis, stock issues policy analysis, evidence and proof, cross-examination considerations in oral argument. The course includes an examination of the types of debates' propositions, listening, note-taking, research methodology and delivery skills essential to effective oral advocacy. The course includes exposure to team and Lincoln-Douglas debate formats on class selected topics and issues. A final examination is required. Transfer credit: CSU; UC

SPCH 10A/B/C/D -- 2/2/2/2 Units
Forensics
Class Hours: 1 lecture, 3 laboratory
This course provides training, rehearsal, performance and practice necessary to a competitive speech team. It provides training in argumentation and debate, informative and persuasive speaking, impromptu and extemporaneous speaking. Students research current political economic, legal and social problems. This course provides one-to-one training between student and instructor. Students are expected to participate in either interscholastic competition and/or speakers bureaus for various requesting community groups. Transfer credit: CSU

SPCH 16 -- 3 Units
Readers Theatre
Class Hours: 3 lecture
The concepts and practices of oral interpretation of literature are studied. Students are involved in supervised activities in performing readers' theatre before community and college audiences. (co-numbered ThA 16) Transfer credit: CSU; UC maximum credit allowed -- 12 units combined with * Theatre Arts courses

SPCH 22A/B -- 1-3/1-3 Units
Independent Studies in Speech
Prerequisite: A previous course in Speech
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of speech on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations

SPCH 56 -- 3 Units
Business and Professional Speech
Class Hours: 3 lecture
Designed to hone the speech skills of business and industrial personnel in leadership positions, this course covers topics as presentation techniques, group and meeting dynamics, argumentation and persuasion, and structure content and organizations. Individual attention will be given to the needs and interests of the student. (co-numbered Bus 56) Transfer credit: CSU

165
People who major in the various specialties of the dramatic arts tend toward a professional career in theatre, television, or films. A large number go into teaching or into community theatre activities. Many have used training in theatre arts toward attaining confidence and self-assurance in professions such as law, the ministry, or business.

**Career Opportunities**

<table>
<thead>
<tr>
<th>Role</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actor/Actress</td>
<td>Sound Technician</td>
</tr>
<tr>
<td>Assistant Director</td>
<td>Production Assistant</td>
</tr>
<tr>
<td>Assistant Stage Manager</td>
<td>Stagehand</td>
</tr>
<tr>
<td>Stage Technician</td>
<td>Playwright</td>
</tr>
<tr>
<td>Lighting Technician</td>
<td></td>
</tr>
</tbody>
</table>

**Faculty**

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>Part-Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katherine Lewis</td>
<td>Abra Flores</td>
</tr>
<tr>
<td>Leslie Wieder</td>
<td>Roy Howell</td>
</tr>
<tr>
<td></td>
<td>John Medioli</td>
</tr>
<tr>
<td></td>
<td>Don Henderson</td>
</tr>
<tr>
<td></td>
<td>Ofelia Romero-Motaugh</td>
</tr>
</tbody>
</table>

---

### Theatre Arts -- Acting

#### Associate in Arts Degree

This program is designed to emphasize skills required for acting in those desiring to transfer to a university or college or to seek to enter the acting profession.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThA 1 Intro to the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>ThA 2A Beginning Acting</td>
<td>3.5</td>
</tr>
<tr>
<td>ThA 2B Intermediate Acting</td>
<td>3.5</td>
</tr>
<tr>
<td>ThA 2C Advanced Acting I</td>
<td>3.5</td>
</tr>
<tr>
<td>ThA 3 Voice and Diction</td>
<td>3</td>
</tr>
<tr>
<td>ThA 13 Production and Performance</td>
<td>3-3</td>
</tr>
<tr>
<td>ThA 23 Stagecrafts</td>
<td>3</td>
</tr>
<tr>
<td>ThA 24 Theatrical Costume and Makeup</td>
<td>3</td>
</tr>
</tbody>
</table>

Total minimum units required in major area -- 28.5

Recommended Courses: Dance 12A; Engl 15AB, 17; Mus 13A; ThA 23, 9

See Degree Requirements and Transfer Information section for General Education requirements.

### Theatre Arts -- Directing

#### Associate in Arts Degree

This program is designed to emphasize skills required for directing in those desiring to transfer to a university or college or to seek to enter the directing profession.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThA 1 Intro to the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>ThA 2A Beginning Acting</td>
<td>3.5</td>
</tr>
<tr>
<td>ThA 2B Intermediate Acting</td>
<td>3.5</td>
</tr>
<tr>
<td>ThA 10 Production and Performance</td>
<td>3-3</td>
</tr>
<tr>
<td>ThA 15A Beginning Stage Direction</td>
<td>3</td>
</tr>
<tr>
<td>ThA 15B Intermediate Stage Direction</td>
<td>3</td>
</tr>
<tr>
<td>ThA 20 Stagecrafts</td>
<td></td>
</tr>
<tr>
<td>ThA 23 Lighting and Scene Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Total minimum units required in major area -- 28

Recommended Courses: Engl 15AB, 17; ThA 21, 24

See Degree Requirements and Transfer Information section for General Education requirements.

### Theatre Arts Courses

Students planning to take more than 12 units of Theatre Arts courses marked * should consult a counselor. The UC system allows credit for the first 12 units only. The UC system also allows credit for the first 12 units marked with a †.

**ThA 1 -- 3 Units**

**Introduction to the Theatre**

Class Hours: 3 lecture

This course is an introduction to the theatre as an art form, and an appreciation of the theatre, past and present. The course will pay particular attention to the significance of dramatic art in human culture and to the development of critical thinking and writing skills pertinent to the analysis of dramatic performance. **Transfer credit: CSU; UC**

**ThA 2A -- 3.5 Units**

**Beginning Acting**

Class Hours: 2 lecture, 4.5 laboratory

This is a beginning course in the art of acting, which emphasizes exercises designed to develop individual insight, technique, and concentration. The course focuses on improvisation and includes some scene work. **Transfer credit: CSU; UC; CAN: DRAM 19**

**ThA 2B -- 3.5 Units**

**Intermediate Acting**

Prerequisite: ThA 2A or equivalent level of skill

Class Hours: 2 lecture, 4.5 laboratory

This course covers further instruction in acting techniques and characterization which includes exercises in pantomime and improvisation. The course will include practical experience with scenes from plays and additional work with stage movement. **Transfer credit: CSU; UC**

**ThA 2C -- 3.5 Units**

**Advanced Acting I**

Prerequisite: ThA 2B or equivalent level of skill

Class Hours: 2 lecture, 4.5 laboratory

This course covers advanced instruction in acting techniques and characterization with emphasis on refinement of skills including timing, sense memory, and vocal styles. Students will perform in a variety of scenes from plays and continue work with stage movement. **Transfer credit: CSU; UC**

**ThA 2D -- 3.5 Units**

**Advanced Acting II**

Prerequisite: ThA 2C or equivalent level of skill

Class Hours: 2 lecture, 4.5 laboratory

This class covers further advanced instruction in characterization with emphasis on timing, vocal styles and sense memory. Students will perform in a variety of scenes from plays. **Transfer credit: CSU; UC**

**ThA 3 -- 3 Units**

**Voice and Diction**

Class Hours: 3 lecture

Designed for Theatre, Forensics and Broadcasting students but open to all others, this course provides instruction in correct pronunciation, breathing, and control techniques. It includes the theory and practice of voice control as well as the study of regional and foreign dialects. May be taken two (2) times for credit. (co-numbered RT 8, Spch 3) **Transfer credit: CSU; UC**

**ThA 4A -- 3 Units**

**History of the Theatre**

Class Hours: 3 lecture

This course is a history of theatrical development from primitive through present. The first semester covers the period from ancient Greek through the Italian Renaissance. This course is required for Theatre Arts majors. **Transfer credit: CSU; UC**
ThA 4B -- 3 Units
History of the Theatre
Class Hours: 3 lecture
This class is a history of theatrical development from English Ken-
naince to the present. It is required of Theatre Arts majors. Transfer
credit: CSU; UC

ThA 9 -- 3 Units
Acting for Film and TV
Class Hours: 2 lecture, 3 laboratory
Students will learn the techniques required in acting before the cam-
era, blocking, movement, rapid line learning, etc., as it pertains to film
and TV, and as it varies from stage work. Studied will also be micro-
phone techniques and opportunities to perform in student-directed
films and television shows. May be taken four (4) times for credit.
(co-numbered RT 9) Transfer credit: CSU; UC

ThA 10 -- 3 Units
Production and Performance
Class Hours: 144 rehearsal total
This course offers credit for a range of supervised activities relative
to college-sponsored drama production. May be taken four (4) times
for credit. Transfer credit: CSU; UC

ThA 15A -- 3 Units
Beginning Stage Direction
Prerequisite: ThA 1 or (ThA 2A or ThA 20)
Class Hours: 2 lecture, 3 laboratory
This is an introductory study of the art and craft of stage direction,
past and present. Course will include practical experience in directing
scenes by major playwrights. Activities may be coordinated with ThA
2B/G/D. Transfer credit: CSU; UC

ThA 15B -- 3 Units
Intermediate Stage Direction
Prerequisite: ThA 15A
Class Hours: 2 lecture, 3 laboratory
This course is a continuation of the study of the art and craft of
stage direction with emphasis on practical experience with student
productions. Activities will be coordinated with ThA 2A/B/C. Transfer
credit: CSU; UC

ThA 16 -- 3 Units
Readers Theatre
Class Hours: 3 lecture
The concepts and practices of oral interpretation of literature are
studied. Students are involved in supervised activities in performing
readers' theatre before community and college audiences. (co-num-
bered Spch 16) Transfer credit: CSU; UC

ThA 20 -- 3 Units
Stagecrafts
Class Hours: 2 lecture, 3 laboratory
This course emphasizes the theory and practice of set construction,
lighting operations, audio operations, painting, costuming, makeup,
and special effects. It is a hands-on course which teaches the basic
skills in all areas of performing arts production. May be taken four (4)
times for credit. Transfer credit: CSU, UC

ThA 21 -- 3 Units
Play Writing
Class Hours: 3 lecture
This course is designed for the student to develop his skills in writing
for the theatre with the possible opportunity of production. (co-
numbered Engl 25) Transfer credit: CSU

ThA 22A/B -- 1-3/1-3 Units
Independent Studies in Theatre
Prerequisite: A previous course in Theatre Arts
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their
knowledge of theatre arts on an independent study basis. The project
selected must be approved by an instructor in the discipline and the
Division Dean. The project will involve library work or laboratory work
or field trips. May be taken for a maximum of 6 units. Transfer credit:
CSU; UC credit limitations.

ThA 23 -- 3 Units
Lighting and Scene Design
Class Hours: 2 lecture, 3 laboratory
This course deals with the study of basic lighting and sound theo-
ries, equipment procedures, and theatrical effects for stage produc-
tions. The fundamentals of theatrical scene design and construction
will also be studied. Transfer credit: CSU; UC

ThA 24 -- 3 Units
Theatrical Costume and Makeup
Class Hours: 2 lecture, 3 laboratory
This course deals with the study of the fundamentals of theatrical
costume design and construction and design and application of the-
atrical makeup. Transfer credit: CSU; UC

167
Urban Studies

This is an interdisciplinary program focusing on major problems which stem from the complexities and pressures of the urban environment in a highly industrialized society. The degree may lead to employment in governmental and voluntary agencies concerned with planning and providing human services. Some students may wish to enter graduate study in such professional schools as city planning, public administration, social welfare, or law.

Career Opportunities

(Bachelors or advanced degree required)
City Planner
Public Administration
City Manager
Urban Economist
Recreation Specialist
Urban Historian
Elected Official
Law Enforcement
Urban Design and Redevelopment
Substance Abuse Specialist
Traffic Analyst
Community Relations

Faculty
Counselor
Ofelia Romero-Motlagh

Urban Studies Courses

URBAN 1A -- 3 Units
Contemporary Urban Issues
Class Hours: 3 lecture
This course introduces students to the general theoretical framework and primary forms of analysis used in the study of urban politics, urban political economy, and urban sociology. It focuses on the role of power in shaping urban life, concentrating particularly on issues of integration/segregation, inclusion/exclusion, and equality/inequality in the control, access, and distribution of work, housing, cultural expression, public space, and local resources. Transfer credit: CSU; UC

URBAN 1B -- 3 Units
Contemporary Urban Issues
Class Hours: 3 lecture
This is an introductory course with emphasis placed on field research in addition to lectures and library study in the areas of: ecological effects of urban growth; governmental structure and financing; cooperation and conflict between federal, state and local governmental bodies; housing; law enforcement; education; racial conflict; land use and urban renewal. Transfer credit: CSU; UC

URBAN 22A/B -- 1-3/1-3 Units
Independent Studies in Selected Urban Issues
Prerequisite: A previous course in Urban Studies
Class Hours: 1-3 tutorial
This course is for students who are interested in furthering their knowledge of urban studies on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Dean. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. Transfer credit: CSU; UC credit limitations.

URBAN 60A-Z -- 1-3 Units
Topics in Urban Studies
Prerequisites: To be determined with each Topic
Class Hours: To be determined with each Topic
This is a special series of courses each of which deals with a specific topic in Urban Studies not covered in detail in the general Urban Studies course offerings. Topic courses are announced on a semester basis in the schedule of classes. Transfer credit: CSU

Zoology

All Zoology courses are listed with the Biology courses. Refer to that section alphabetically for full course information.
College Faculty and Administration

Governing Board
President......................................................... Pete E. Tafoya
Vice President.................................................. John Tallman
Members......................................................... Timothy D. Hirschberg
                                           Dr. Allan W. Jacobs
                                           Dr. Norman J. Nagel

District Administration
Chancellor..................................................... Dr. Philip Westin
Deputy Chancellor ........................................... Vacant
Executive Director, Human Resources..................... Jerry D. Pauley
Executive Director, Instruction and Student Services..... Vacant

Administration of the College
President....................................................... Dr. James Walker
Office of Administrative Services:
  Vice President, Administrative Services................. Ray Di Giulio
  Director, Auxiliary Services............................. David Leyba
  Director, Maintenance and Operations.................. Jim Ferguson

Office of Instructional Services:
  Vice President, Instructional Services................. Dr. A. Darlene Pacheco
  Dean, Instructional Services.............................. Rene G. Rodriguez
  Dean, Vocational Education.............................. Dr. Vicki Bortolussi
  Dean, Humanities Division................................ Dr. Sidney Adler
  Dean, Science/Mathematics/Engineering Division........ Floyd Martin
  Dean, Social Science/Physical Education/Health Divisions................. Alwyn Nordquist
  Dean, Business/Technology Division..................... Dr. Judith A. Gerhart
  Dean, Learning Resources................................ Dr. Edward F. Tennen

Office of Student Services:
  Vice President, Student and Educational Services...... Floyd D. Thionnet

Organization of Departments and Programs

Coordinators
Athletics....................................................... John Keever
Child Care/Child Development.............................. Linda A. Cravens
Extended Opportunity Program Services............... Paul K. Pajson
Exotic Animal Training/Management..................... Gary L. Wilson
Learning Assistance Center.............................. Patricia E. Dozen
Nursing Science............................................. Brenda Shubert
Special Education.......................................... Janet M. Andriesse
Student Health Services................................. Sharon L. Manakas

Department Heads
Behavioral Sciences........................................ Steven J. Pollock
Business...................................................... Janice C. Feingold
History and Institutions.................................. John Davie
Language Arts................................................ Richard Edwards
Life Sciences................................................ David Bishop
Mathematics.................................................. Jane M. Broadbooks
Performing Arts............................................. Les Welder
Physical Education.......................................... Willard Thurston
Physical Sciences.......................................... Richard Kurlik
Visual and Communication Arts......................... Frank V. Sardisco

Title IX Representative
Dr. A. Darlene Pacheco, Vice President, Instruction Administration Building, #159, (805) 378-1403, Ext. 1403

504 Facilitator (Handicapped)
Janet M. Andriesse
Student Services Bldg., #111, (805) 378-1461, Ext. 1461

Title V Facilitator (Affirmative Action)
Position Vacant
Administration Building, #133, (805) 378-1425, Ext. 1425

Title III Project Coordinator
Olivia Menchaca
Administration Building, #162, (805) 378-1405, Ext. 1406
Full-Time Certificated Staff

(Date) indicates year of employment at Moorpark College.
Faculty ranks determined by Moorpark College Academic Senate.

Adler, Sidney (1968)  Dean, Humanities Division
B.A., M.A., City College of New York; Ph.D., University of Southern California.

Aguilera, Christine S. Ruiz (1972)  Professor, Mathematics
B.A., University of California, Irvine; M.A., University of California, San Diego; M.S., University of California, Los Angeles.
(Sabbatical 96-97)

Alken, Kirk (1969)  Professor, Art
B.A., University of Southern California; M.A., California State University, Los Angeles.

Aldana, Guadalupe del C. (1991)  Professor, Radiologic Technology
A.A., Los Angeles City College; B.S., California State University, Northridge.

Alexander, Judy (1968)  Professor, Nutritional Science
B.S., University of California, Los Angeles; M.S., California State University, Northridge.

Allyn, Donna Proskes (1988)  Associate Professor, Counseling
A.A., Windward Community College, Hawaii; B.S., M.Ed., University of Hawaii; Ph.D., University of California, Los Angeles.

Andriese, Janet M. (1974)  Professor/Coordinator, Special Education
B.S., University of California, Los Angeles; M.S., California State University, Northridge.

Arnold, Charlene (1986)  Professor, Speech
B.A., M.A., California State University, Northridge.

Baker, Barbara (1975)  Professor, English/Reading
B.A., San Diego State University; M.A., California State University, Los Angeles.

Baker, John R. (1990)  Associate Professor, Anthropology
B.A., Pepperdine University, Malibu; Ph.D., Universitat Hamburg, Hamburg, West Germany.

Barker, Beverly J. (1990)  Professor, Mathematics
B.A., Pomona College; M.S., California State University, Northridge.

Barnett-Shelby, Cynthia (1992)  Associate Professor, Sociology
B.A., M.A., Bowling Green State University; Bowling Green, Ohio.

Becht, Balazs (1983)  Professor, Astronomy/Physics
B.S., M.S., California State University, Northridge.

Berg, Eugene (1970)  Professor, Chemistry
A.B., University of California, Los Angeles; M.S., California State University, Long Beach; Ph.D., University of California, Los Angeles.

Beran, Alberto (1971)  Professor, Mathematics
B.S., M.A., California State University, Los Angeles.

Blanchino, Francis S. (1977)  Professor, Counseling/Psychology
B.A., St. Francis College, Brooklyn, New York; M.S., St. John's University, Jamaica, New York; Ph.D., U.S. International University, San Diego.

Bishop, David (1968)  Department Head, Life Sciences; Professor, Biology/Microbiology
B.S., Washington State University; M.A., University of California, Santa Barbara.

Bittner, James L. (1979)  Professor, Physical Education/Health Education
B.A., M.T. Union College, Ohio; M.A., Western State College, Colorado; M.A., California Lutheran College.

Bodhaine, Grace C. (1991)  Assistant Professor, Spanish
B.A., M.A., California State University, Northridge; C Phil, University of California, Los Angeles.

Bortolussi, Vicki (1989)  Dean, Vocational Education
B.A., M.A., University of Southern California; Ph.D., University of California, Santa Barbara.

Bridgeman, Gerald (1969)  Professor, Political Science
A.B., M.A., University of California, Berkeley.

Broadbooks, Jane M. (1988)  Department Head, Mathematics; Professor, Mathematics
B.S., University of Michigan; M.A., Washington University.

Brown, Daniel P. (1986)  Professor, History
B.A., Ball State University, Muncie, Indiana; M.A., Colorado State University, Fort Collins, Colorado.

Byrne, Denise J. (1981)  Professor, Nursing
B.S.N., M.S.N., California State University, Los Angeles.

Cardoni, Richard F. (1980)  Professor, Counseling
B.S., M.S., University of Arizona.

Collier, Shary (1972)  Professor, Business Information Systems
B.A., Cornell College, Iowa; M.A.E., California Lutheran College.

Copsey, Cecile M. (1963)  Professor, History
B.A., University of California, Berkeley; M.A., University of California, Los Angeles.

Cravens, Linda A. (1983)  Coordinator, Child Care/Child Development; Assistant Professor, Child Development
B.A., University of California, Santa Barbara; M.A., California State University, Northridge.

D'Attilio, Sherry (1990)  Professor, Learning Disabilities
B.A., California State University, Northridge; M.S., California Lutheran University.

Dyal, Gillian M. (1988)  Professor, English
B.A., Mount Holyoke College, Maryland; M.A., University of Southern California.

Dauro, Janice (1996)  Instructor, Psychology
B.A., City University of New York, New York; M.A., Claremont Graduate School; M.A., Mount Saint Mary's College, Los Angeles.

Davies, John (1971)  Department Head, Language Arts
M.A., University of California, Long Beach; Ph.D., Claremont Graduate School.

Dillen, Brian (1988)  Professor, Counseling
B.A., Laredo Junior College, Laredo, Texas; B.A., Texas A&M University, Kingsville, Texas; M.A., San Jose State University.

Di Giolfo, Ray (1993)  Vice President, Administrative Services
B.A., M.A., University of California, Berkeley.

Dillon, Bona L. (1989)  Professor, Journalism/English
B.A., M.A., Ball State University, Muncie, Indiana.

Doyle, Stephen C. (1990)  Professor, Speech
B.A., California Polytechnic State University, San Luis Obispo; M.A., California State University, Los Angeles.

Dozen, Patricia E. (1988)  Professor/Coordinator, Learning Assistance Center
B.A., M.A., California State University, Long Beach.

Edwards, Richard (1970)  Professor, English
B.A., University of California, Santa Barbara; M.A., Yale University.

Ekback, Hugo (1971)  Professor, English/Humanities
B.A., University of California, Riverside; M.A., California State University, Chico.

Elias, Woodrow (1996)  Instructor, Chemistry
B.A., California State University, Northridge; M.S., California State University, Northridge.

Epping, Beatrice (1990)  Professor, Nursing
B.S., College of Saint Teresa, Winona, Minnesota; M.N., University of California, Los Angeles.

Farrell, Judith (1974)  Professor, Psychology
A.A., Ventura College; B.A., M.A., California State University, Northridge.

Fecht, Gerald R. (1969)  Professor, History/Humanities/Marketing
A.A., Los Angeles Valley College; A.B., M.S., Ph.D., University of Southern California.

Feingold, Janice C. (1989)  Department Head, Business; Associate Professor, Business
B.A., University of California, Davis; M.S., California State University, Northridge.

Fink, Kathleen E. (1984)  Professor, Mathematics
B.A., University of California, Santa Cruz; M.A., University of Oregon.

Fontaine, Victor A. (1991)  Associate Professor, Philosophy
B.A., M.A., Ph.D., University of Fribourg, Switzerland; M.A., M.B.A., University of California, Los Angeles.

Franke, Deanna R. (1994)  Assistant Professor, Chemistry
B.S., California Lutheran University; Ph.D., University of California, Santa Barbara.

Garber, Norman (1986)  Professor, English
B.A., University of Connecticut; M.A., Ph.D., University of California, Santa Barbara.

B.S., M.Ed., DePaul University, Illinois; Ed.D., Nova University, Florida.

Ginet, Carole (1968)  Professor, Sociology/Humanities/Psychology
B.A., University of California, Berkeley; M.S., University of Southern California.

Gonzalez, Joseph (1971)  Professor, History
A.A., Santa Barbara City College; B.A., M.A., Ph.D., University of California, Santa Barbara.

Grzywacz-Gray, John M. (1971)  Professor, Photography/Graphic Design / Journalism

Guarrardo, Peter (1971)  Professor, Economics
B.A., California Lutheran College; M.A., University of Southern California.

Hall, Elton A. (1992)  Professor, Philosophy
B.A., Occidental College, Los Angeles; M.A., University of California, Santa Barbara.
Halleran, Ronald (1975)  
Professor, Health Education/Physical Education  
B.S., California State University, Hayward;  
M.S., Utah State University;  
M.A., California Lutheran College.

Hanft, John (1977)  
Professor, English  
B.A., University of California, Riverside;  
M.A., California State University, Chico.

Harper, Clint D. (1978)  
Professor, Engineering Technology/Physical Sciences/Physics  
B.S., M.S., California State University, Northridge;  
A.M., Ph.D., University of Southern California.

Harrigan, Maureen (1996)  
Instructor, Biology  
B.S., Santa Clara University  
Ph.D., University of Southern California

Harrington, G. David (1992)  
Professor, Criminal Justice  
B.S., M.S., California State University, Los Angeles.

Henderson, Donald (1974)  
Professor, Counseling  
B.A., Austin College;  
M.S., California State University, Los Angeles.

Herman, Robert (1988)  
Department Head, History and Institutions;  
Professor, Political Science/Economics  
B.A., M.A., University of California, Santa Barbara.

Professor, Mathematics  
B.S., University of Northern Iowa;  
M.S., University of Oregon.

Hoffmans, Kimberly D. (1993)  
Associate Professor, Nursing  
B.S.N., University of Texas, Austin;  
M.S.N., Texas Woman's University, Houston.

Hopkins, Randolf B. (1989)  
Associate Professor, History  
B.A., M.A., University of California, Santa Barbara.

Ingersoll, Orbie (1967)  
Professor, Music  
B.A., California State University, Northridge;  
M.A., University of California, Santa Barbara.

Ingram, Edna M. (1986)  
Professor, Counseling  
B.A., Roosevelt University, Chicago, Illinois;  
M.A., California State University, Northridge.

Izumo, Gary (1995)  
Instructor, Business  
B.A., Occidental College, Los Angeles  
M.B.A., University of California, Los Angeles.

Izumo, Susan (1981)  
Professor, Counseling  
A.B., M.A.T., Whittier College;  
M.S., University of Southern California.

Johnson, Michael (1989)  
Professor, Counseling  
B.S.S.W., M.S.W., St. Louis University, St. Louis, Missouri.

Kaischner, Anne J. (1989)  
Professor, English/Humanities  
B.A., University of California, Santa Cruz;  
M.A., University of California, San Diego.

Kay, David (1984)  
Professor, Computer Information Systems/ Mathematics  
B.A., M.S., California State University, Northridge.

Keever, John (1969)  
Coordinator, Athletics;  
Professor, Physical Education  
B.A., University of California, Santa Barbara;  
M.A., California State University, Chico.

Kessner, Dolly E. (1990)  
Professor, Music  
A.B., M.A., University of California, Los Angeles;  
Ph.D., University of Southern California.
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution/State</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petrello, Rolland C.</td>
<td>Associate Professor, Speech</td>
<td>A.A., Moorpark College</td>
<td>California</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B.S., Southern Utah State College, Cedar City; M.A., Miami University, Oxford, Ohio.</td>
<td></td>
</tr>
<tr>
<td>Phillips, Theodore D.</td>
<td>Professor, Graphic Design</td>
<td>B.S., Woodbury University, Los Angeles; M.F.A., California College of Arts and Crafts, Oakland, California.</td>
<td></td>
</tr>
<tr>
<td>Pollock, Steven J.</td>
<td>Department Head, Behavioral Sciences; Professor, Psychology</td>
<td>B.A., Whitman College, Washington; M.A., Ph.D., Claremont Graduate School, California.</td>
<td></td>
</tr>
<tr>
<td>Rahnamai, Mahyad Z.</td>
<td>Professor, Mathematics</td>
<td>B.S., Shahid University, Iran; M.S., Ph.D., University of Southern California; M.S., California State University, Northridge.</td>
<td></td>
</tr>
<tr>
<td>Ramos, Judith S.</td>
<td>Assistant Professor, English</td>
<td>B.A., Immaculate Heart College, Los Angeles; M.A., California State University, Northridge; B.A., California State University, Los Angeles.</td>
<td></td>
</tr>
<tr>
<td>Rauff, Cecilia (Lisa)</td>
<td>Professor, Counseling</td>
<td>B.A., University of California, Los Angeles; M.S., California State University, Los Angeles; Ed.D., University of California, Los Angeles.</td>
<td></td>
</tr>
<tr>
<td>Rees, Gary W.</td>
<td>Professor, Geography</td>
<td>B.A., University of California, Los Angeles; M.A., California State University, Northridge.</td>
<td></td>
</tr>
<tr>
<td>Reid, Kathleen</td>
<td>A.S., Ventura College</td>
<td>B.S., California State University, Fresno; M.S., University of Tennessee, Knoxville.</td>
<td></td>
</tr>
<tr>
<td>Reynolds, Jack G.</td>
<td>Professor, Anatomy/Anthropology/Biology</td>
<td>B.A., M.A., University of California, Berkeley.</td>
<td></td>
</tr>
<tr>
<td>Ritchie, Deborah J.</td>
<td>Professor, Mathematics</td>
<td>A.A., College of Sequoias; B.S., M.A., California Polytechnic State University, San Luis Obispo.</td>
<td></td>
</tr>
<tr>
<td>Roden, Benjamin L.</td>
<td>Professor, Mathematics</td>
<td>B.A., M.A., University of California, San Diego.</td>
<td></td>
</tr>
<tr>
<td>Rodriguez, Ren G.</td>
<td>Dean, Instructional Services</td>
<td>B.A., M.A., University of California, Santa Barbara.</td>
<td></td>
</tr>
<tr>
<td>Romero-Mottagh, Ofelia</td>
<td>Professor, Counseling/Bilingual</td>
<td>A.A., Moorpark College; B.A., M.A., California State University, Northridge. Ph.D., University of California, Los Angeles.</td>
<td></td>
</tr>
<tr>
<td>Ross, Patricia A.</td>
<td>Professor, English</td>
<td>A.A., Citrus College, Azusa, California; B.A., Pomona College, Claremont; M.A., Purdue University, West Lafayette, Indiana.</td>
<td></td>
</tr>
<tr>
<td>Sanchez, Tomsa</td>
<td>Professor, Health and Human Services</td>
<td>B.A., California State University, Northridge; M.A., University of California, Santa Barbara.</td>
<td></td>
</tr>
<tr>
<td>Sardisco, Frank V.</td>
<td>Department Head, Visual and Communication Arts</td>
<td>Professor, Art; B.A., University of California, Los Angeles; M.F.A., Otis Art Institute.</td>
<td></td>
</tr>
<tr>
<td>Schaak, J. Fred</td>
<td>Professor, Mathematics</td>
<td>B.S., University of California, Davis; M.S., California State University, Northridge.</td>
<td></td>
</tr>
<tr>
<td>Shargo, Eric S.</td>
<td>Assistant Professor, Anatomy/Physiology/Biology/Zoology</td>
<td>B.A., M.S., California State University, Northridge; Ph.D., University of California, Los Angeles.</td>
<td></td>
</tr>
<tr>
<td>Sheridan, Pamela</td>
<td>Professor, English</td>
<td>B.A., M.A., University of California, Santa Barbara.</td>
<td></td>
</tr>
<tr>
<td>Shindo, Kokichi</td>
<td>Professor, Mathematics</td>
<td>A.B., Ripon College, Wisconsin; A.B., M.A., University of California, Los Angeles; M.S., Western Washington State.</td>
<td></td>
</tr>
<tr>
<td>Shubert, Brenda</td>
<td>Professor/Coordinator, Nursing Science</td>
<td>B.S.N., Medical College of Georgia; M.N., University of California, Los Angeles.</td>
<td></td>
</tr>
<tr>
<td>Smith, Mitchell L.</td>
<td>Professor, Criminal Justice</td>
<td>B.A., M.A., San Diego State University.</td>
<td></td>
</tr>
<tr>
<td>Song, James J.</td>
<td>Professor, Music</td>
<td>B.A., M.A., University of Colorado, Boulder.</td>
<td></td>
</tr>
<tr>
<td>Spraggins, M. Thomas</td>
<td>Professor, Accounting/Business</td>
<td>B.S., California State University, Northridge; M.S., Colorado State University; M.A., California Lutheran College; Certified Public Accountant.</td>
<td></td>
</tr>
<tr>
<td>Stephens, Robert T.</td>
<td>Professor, Mathematics</td>
<td>B.S., Brigham Young University; M.S., University of California, Riverside.</td>
<td></td>
</tr>
<tr>
<td>Stewart, Nancy L.</td>
<td>Professor, Physical Education/Health Education</td>
<td>B.A., California State University, Long Beach; M.S., University of California, LaCrosse.</td>
<td></td>
</tr>
<tr>
<td>Stewart, Sexton</td>
<td>Professor, Graphic Communications</td>
<td>B.S., Southern University, Louisiana; M.A., San Francisco State University.</td>
<td></td>
</tr>
<tr>
<td>Strong, Richard</td>
<td>Professor, Speech/Forensics</td>
<td>B.A., M.A., University of Redlands.</td>
<td></td>
</tr>
<tr>
<td>Strumpf, Michael</td>
<td>Professor, English/Reading</td>
<td>B.S., M.C., University of Southern California.</td>
<td></td>
</tr>
<tr>
<td>Sukhni, Diane</td>
<td>Professor, Counseling</td>
<td>B.A., State University of New York, Albany; M.A., Columbia University, New York; Ed.D., Nova University, Florida. (Sabbatical 96-97)</td>
<td></td>
</tr>
<tr>
<td>Szlywczik, Arthur</td>
<td>Professor, Mathematics</td>
<td>B.A., M.A., University of California, Los Angeles.</td>
<td></td>
</tr>
<tr>
<td>Tan, Shou-Ling Shelia</td>
<td>Associate Professor, Computer Science</td>
<td>B.A., Tunghai University, Taichung, Taiwan; M.Ed., M.A., M.S., University of California, Santa Barbara.</td>
<td></td>
</tr>
<tr>
<td>Tennen, Edward F.</td>
<td>Dean, Learning Resources</td>
<td>B.A., California State University, Long Beach; M.A., M.S.L.S., University of Southern California; Ed.D., Nova University, Florida.</td>
<td></td>
</tr>
<tr>
<td>Terry, Danita Redd</td>
<td>Associate Professor, Counseling</td>
<td>B.A., M.A., California Polytechnic State University, San Luis Obispo.</td>
<td></td>
</tr>
<tr>
<td>Thilone, Floyd D.</td>
<td>Vice President, Student and Educational Services</td>
<td>A.A., Bakersfield College; B.S., University of Arizona; M.S., California Polytechnic State University, San Luis Obispo.</td>
<td></td>
</tr>
<tr>
<td>Thompson, Joan</td>
<td>Professor, Music</td>
<td>B.A., M.A., California State University, Northridge.</td>
<td></td>
</tr>
<tr>
<td>Thurston, William J.</td>
<td>Department Head, Physical Education; Associate Professor, Physical Education</td>
<td>B.A., California Lutheran University; M.A., Azusa Pacific University, California.</td>
<td></td>
</tr>
<tr>
<td>Trevino, Manuel O.</td>
<td>Professor, Physical Education</td>
<td>A.B., M.A., California State University, Chico.</td>
<td></td>
</tr>
<tr>
<td>Trevino, Sandra Kay</td>
<td>Librarian</td>
<td>A.A., Ventura College; B.A., California State University, Chico; M.S., University of Southern California.</td>
<td></td>
</tr>
<tr>
<td>Walker, James W.</td>
<td>President</td>
<td>B.S., M.A., Loyola University, Los Angeles; M.S., University of Notre Dame; Ed.D., University of Southern California.</td>
<td></td>
</tr>
<tr>
<td>Walters, J. Roger</td>
<td>Professor, Mathematics</td>
<td>B.A., University of California, Los Angeles; M.A., University of Oregon.</td>
<td></td>
</tr>
<tr>
<td>Wilson, Gary L.</td>
<td>Professor/Coordinator, Exotic Animal Training and Management</td>
<td>A.S., Moorpark College; B.A., M.A., University of California, Santa Barbara.</td>
<td></td>
</tr>
<tr>
<td>Winkler, Helga</td>
<td>Instructor, Spanish</td>
<td>B.A., Arizona State University, Tempe; B.A., University of Aachen, Germany; M.A., University of Kiel, Germany; Ph.D., University of Texas, Austin.</td>
<td></td>
</tr>
<tr>
<td>Wolff, Louis A.</td>
<td>Professor, Computer Information Systems/ Business Information Systems</td>
<td>B.S., M.S., University of La Verne, Point Mugu.</td>
<td></td>
</tr>
<tr>
<td>Woodward, Carol</td>
<td>Professor, Psychology</td>
<td>B.A., M.A., California State University, Northridge; Ph.D., University of Southern California.</td>
<td></td>
</tr>
<tr>
<td>Wyngard, Gretbe M.</td>
<td>Professor, Mathematics</td>
<td>A.A., Santa Barbara City College; B.A., M.A., University of California, Santa Barbara.</td>
<td></td>
</tr>
<tr>
<td>Wyman, James L.</td>
<td>Professor, Business/Speech/Forensics</td>
<td>B.A., University of Redlands; J.D., Loyola Law School, Los Angeles.</td>
<td></td>
</tr>
<tr>
<td>Young, Kathleen</td>
<td>Professor, Business/Business Information Systems</td>
<td>B.S., California State University, Long Beach; M.A., California Lutheran College.</td>
<td></td>
</tr>
</tbody>
</table>
Faculty Emeritus

Ainge, Kenneth E. (1967)
Director, Business and Technology Division
A.B., University of California, Santa Barbara; M.A., University of California, Los Angeles; Ed.D., Brigham Young University.

Allen, Judith (1968)
Professor, English
A.B., Pennsylvania State University; M.A., California State University, Sacramento; M.L.S., Immaculate Heart College.

Anderson, Donald (1968)
Coordinator, Equine - Rancho Sierra Vista; Professor, Agriculture
B.S., California State University, Fresno; M.A., California Polytechnic State University, San Luis Obispo.
Ph.D., Colorado State University, Fort Collins, Colorado.

Bassett, Estella M. (1967)
College Nurse, Health Education
R.N., Saint Mary's Hospital School of Nursing, Rochester, New York.
M.E., University of California, Los Angeles.
Retired June, 1974.

Dean, Student Services
B.A., University of California, Los Angeles; M.A., San Diego State University; Ph.D., Nova University.

Bettini, Arthur J. (1967)
Dean, Physical Education/Health Education Division/Social Science Division
B.A., M.A., University of California, Los Angeles.

Black, Richard (1968)
Professor, English
B.A., M.A., University of California, Santa Barbara.

Bowen, Donald C. (1967)
Professor, Accounting
B.S., San Diego State University; M.B.A., University of California, Los Angeles; M.S., California State University, Northridge.

Brisby, William L. (1969)
Exotic Animal Training and Management
B.S., Colorado State University; M.S., University of Southern California.

Buckner, Kenneth (1968)
Professor, Sociology
B.S., M.A., University of Southern California.

Corbell, Marjorie L. (1970)
Professor, Business Information Systems
A.A., Kansas City Junior College; B.S., Central Missouri State College; M.A., California State University, Long Beach.

Deutsch, Dolores (1970)
Professor, Child Development
B.A., University of California; M.A., California State University, Northridge.

Dillon, Joanna P. (1980)
Professor, Learning Disabilities
B.S., University of Illinois; M.S., California Lutheran College.

Doddgen, William W. (1971)
Professor, Art
B.A., Drury College, Springfield, Missouri; M.F.A., Wichita State University, Kansas.

Dunham, F. Paul (1967)
Director, Physical Education/Health Education Division; Director, Athletics
B.A., University of California, Santa Barbara; M.A., California State University, Northridge.

Evans, Brook (1974)
Professor, Business
A.A., Orange Coast College; B.S., California State University, Long Beach; M.B.A., California State University, Northridge; M.A., California Lutheran College.

Fink, Paul (1970)
Professor, Philosophy
B.A., Pennsylvania State University; M.A., University of Rochester.

Fleming, Jack (1968)
Director, Continuing Education
B.A., California State University, Sacramento; M.S., California Lutheran College.

Gayle, James R. (1967)
Vice President, Instructional Services
B.S., United States Naval Academy; M.S., Purdue University.

Gilman, Richard E. (1967)
Biological Sciences
B.S., M.S., St. Mary's College, Winona, Minnesota; M.S., University of Southern California.

Griffith, W. Randolph (1967)
History
B.A., University of California, Riverside; M.A., University of California, Los Angeles.
Retired June, 1986.

Harris, Verle D. (1958)
Professor, Drafting Technology
B.S.E., California State University, Long Beach.

Heydenreich, John (1971)
Professor, Counseling
B.S., University of Southern California; M.S., California State University, Los Angeles.

Hughes, Frances E. (1985)
Professor, Nursing
R.N., Fresno General Hospital; B.A., California State University, Fresno; M.S. in Nursing, University of California, Los Angeles; M.Ed., University of British Columbia.

Hurley, John (1967)
Associate Librarian
B.A., M.A., San Diego State University; M.L.S., University of California, Los Angeles; Ed.D., Nova University, Florida.
Retired June, 1983.

Imbach, Marjorie (1971)
Director, Community Services and Publications
B.A., University of California, Santa Barbara; M.A., University of California, Los Angeles.

Professor, Business
B.S., Shippensburg State College, Pennsylvania; M.S., Ph.D., University of Pittsburgh, Pennsylvania.

Lloyd, Lawrence G. (1967)
Vice President, Administrative Services
A.B., M.A., University of Southern California.

Louden, Alicia A. (1979)
Dean, General/Transfer Education
B.A., University of Minnesota; M.A., California State University, Northridge.

Long, Knox T. (1968)
Professor, Counseling/History
B.A., University of California, Santa Barbara; M.A., California State University, Los Angeles.

Sociology
B.A., B.D. Concordia Seminary; M.S., Los Angeles State College; Ph.D., University of Southern California.

Matthews, Donald O. (1969)
Director, Business and Technology Division
A.A., Ventura College.

Mehr, Sheldon (1970)
Professor, Music
B.A., University of California, Los Angeles; M.A., California State University, Los Angeles.

Miller, Robert W. (1967)
Professor, Chemistry/Environmental Science
A.B., Temple University; M.S., University of Arizona.

College Nurse
Professor/Coordinator, Student Health Services
R.N., Jefferson Medical College Hospital, Penn. B.S., P.H.N., Catholic University of America, Washington, D.C.; M.A.E., California Lutheran College.

Pearson, Beverly J. (1967)
Professor, Spanish
B.A., University of Michigan; M.A., University of California, Berkeley.

Sarnecky, Dorothy (1967)
Geology
B.A., University of Notre Dame; M.S., Stanford University.

Professor, Biology/Chemistry
A.B., M.S., Ed.D., University of Southern CA.

Scott, Delmore E. (1969)
Professor, Art
B.F.A., M.F.A., University of Southern California.

Siegel, A. Howard (1967)
Professor, Humanities/French/English
B.A., Queens College; M.A., Kansas State University; Ph.D., University of Southern California.

Sianna, Michael M. (1966)
Director of Library Services
J.D., Charles University, Prague, Czechoslovakia; M.A., University of Denver.
Retired February, 1980.

Stogran, Jerry E. (1973)
Professor, Political Science/Urban Studies
B.A., University of California, Los Angeles; M.A., California Lutheran College.

Stringer-Eilers, Pauline (1970)
Professor, Interior Design
B.S., Oklahoma State University; M.S., California State University, Northridge; Ed.D., Nova University, Florida.

Sturgeon, James H. (1967)
Art
B.A., M.F.A., University of California, Santa Barbara.
Retired June, 1986.

Thomsen, John E. (1969)
Professor, Electronics/Engineering
B.S., M.S., University of California, Los Angeles.
Appendix

Appendix I

Privacy Rights Governing Student Records

The colleges in this District establish and maintain information on students relevant to admission, registration, academic history, career, student benefits or services, extra-curricular activities, counseling and guidance, discipline or matters related to student conduct, and shall establish and maintain such information required by law.

Right of Access

Any currently enrolled or former student has a right of access to any or all student records relating to the student maintained by this District. The editing or withholding of such records is prohibited except as provided by law.

Requests for access shall be in writing, addressed to the Vice President, Student and Educational Services at the college of attendance. Requests by students to inspect and review records shall be granted no later than 15 days following the date of request. The inspections and review shall occur during regular school hours. The Vice President, Student and Educational Services shall notify the student of the location of all official records which have been requested and provide personnel to interpret records where appropriate.

Student records are maintained in a manner to insure privacy of all such records and the colleges in this district shall not, except as authorized, permit any access to or release of any information therein.

Access to student records may be permitted to any person for whom the student has executed written consent specifying the records to be released and identifying the party to whom the records may be released. Information concerning a student shall be furnished in compliance with a court order. The College shall make a reasonable effort to notify the student in advance of such compliance if lawfully possible within the requirements of the judicial order.

Students may request copies of records for review. A fee of $3 will be charged.

Directory Information

The colleges in this District maintain directory information which may be released: student's name, address, telephone number, and place of birth, major field of study, class schedule, participation of officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous public and private school attended by the student.

Students may indicate that directory information which shall not be released providing written notification is given the Vice President, Student and Educational Services at the college of attendance at the time of enrollment or earlier if the activity occurs prior to the opening of school.

Challenge

Any student may file a written request with the President of the college or the designee to remove student records which the student alleges to be: (1) inaccurate, (2) an unsubstantiated conclusion of inference, (3) a conclusion or inference outside of the observer's area of competence, (4) not based on personal observations of the named person with the time and place of the observation noted.

Students filing a written request shall be provided a hearing and receive, in writing, a decision either sustaining or denying the allegations. Allegations which have been denied by the college may be further appealed to the Chancellor of the Ventura County Community College District or his designee. Allegations which have been denied by the Chancellor may be further appealed to the Governing Board of the Ventura County Community College District who shall meet with the student, within 30 days of receipt of such appeal, to determine whether to sustain or deny the allegations. All decisions of the Governing Board shall be final.

Appendix II

Affirmative Action

The Ventura County Community College District and its three colleges – Moorpark College, Oxnard College, and Ventura College – are committed to providing an equal opportunity for admissions, student financing, student support facilities and activities, and employment regardless of race, color, religion, sex, national origin, handicap, age, marital status or Vietnam veteran status, in accordance with the requirements of Title IX of the Education Amendments of 1972, Title VII of the Civil Rights Act of 1964 (as amended by the Equal Employment Opportunity Act of 1972), sections 503 and 504 of the Rehabilitation Act of 1973 and the Rehabilitation Act Amendments of 1974, Executive Order 11246 (as amended by Executive Order 11375), and the Federal Age Discrimination Employment Act of 1967 and the Age Discrimination Employment Act Amendments of 1978 and the Americans with Disabilities Act of 1992.

Equal Opportunity Act
Appendix III
Policy on Sexual Harassment

The Ventura County Community College District is committed to all provisions of Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and other human rights and equal opportunity laws. The laws include prohibitions of discrimination in employment and educational programs and services on the basis of sex.

Recent guidelines for Title VII of the Civil Rights Act focus upon sexual harassment as an unlawful practice. "Sexual harassment on the basis of color, race, religion or national origin has long been recognized by the Equal Employment Opportunity Commission as a violation of Section 703 of Title VII of the Civil Rights Acts as amended" (Federal Register, April 11, 1980). Recent interpretations of Title IX of the Education Amendments similarly delineate sexual harassment as discriminatory and unlawful.

Sexual harassment is unacceptable conduct, is unlawful, and will not be tolerated by the Ventura County Community College District. Disciplinary action shall be initiated against any individual found guilty of sexual harassment. The following criteria shall determine whether actions constitute sexual harassment.

1. Employment/Educational Condition.
Submission to the conduct is either an explicit or implicit term or condition of employment and/or pursuit of educational objectives.

2. Employment/Educational Consequence.
Submission to or rejection of the conduct is used as a basis for employment, educational, and/or service decisions affecting the persons who did the submitting or rejecting.

The conduct has the purpose or effect of substantially interfering with an individual's work, academic, or other educational performance or creating an intimidating, hostile or offensive environment.

Implementation and Grievance Procedures:

Students

This procedural statement is a special application of the College District's Student Grievance Policy. It is presented in direct reference to the sexual harassment of the students of the colleges of the Ventura County Community College District and to the related policy of the District adopted by the District's Governing Board. The Board policy is based on Federal and State statutes on this subject.

While sexual harassment of students by other students or by District employees represents a wrong as described in the District's "Student Grievance Procedures," the nature of this particular offense renders it exceptional. Thus, a separate procedure has been established to recognize this distinction.

Sexual harassment is a matter requiring unusually prompt attention by authority since failure to act may represent various kinds of academic and personal damages to the alleged victim. Further, the issues involved are typically very personal and sensitive, and many victims will not risk the delays, publicity and complications attendant to regular grievance procedures. Since this District recognizes the delicate nature of such situations, each step in the grievance procedure will be conducted with discretion in order to maintain a high degree of confidentiality. It is the intent of these procedures to result in prompt recourse and to ensure fairness and equity to both the person alleging the wrong and to the person accused of the wrong.

The District recognizes its responsibility to make every effort to maintain a neutral work and educational environment free of sexual harassment and/or intimidation.

For purposes of this policy, examples of conduct which may constitute sexual harassment, and are outside the standards of professional conduct, include:

1. Deliberate or unsolicited verbal comments, gestures, physical contacts of a sexual nature or demeaning to one's gender which are unwelcome and/or interfere with work productivity.

2. Implicit or explicit sexual behavior by a teacher, supervisor, fellow student, or co-worker to control, influence or otherwise affect the job, salary, course grade, performance evaluation, opportunity for employment, or career of an employee, nondistrict affiliated applicant for employment, or student.

Step 1

Students who believe that they have been subjected to any form of sexual harassment should carefully review both the District's policy on this subject and this procedure. They are encouraged to seek counsel from any member of the college community in whom they have confidence; however, it is recommended that the student contact the Counseling Office to discuss any possible complaint. In order to provide the best professional support to students, the Vice President, Student and Educational Services or his/her designee shall designate two counselors, one male, one female, who will have special responsibility for advising students in matters of sexual harassment. The purpose of such counsel is personal support in a time of crisis. If the complaint involves sexual harassment by a college district employee, the student should proceed to Step 2 of this procedure (see below).

The student shall have the right to be accompanied through the complaint process by an advisor of his/her choice. If the problem involves sexual harassment by a counselor, the counselor shall not be allowed to serve as the student's advisor. The student shall refer the complainant to the Vice President, Student and Educational Services who will take action as prescribed in the Student Conduct Code.

Step 2

Complaints should be brought to the College. The Vice President will hear the complaint, counsel the complainant and be available to act as the complainant's advisor during the resolution process. If, for any reason, the Vice President is unavailable or if the complainant rejects this party in the role described, the college officer hearing the charges shall be the Vice President, Instructional Services.

Step 3

If the problem cannot be resolved at the second step within five working days, the Vice President will transmit it, in writing and signed by the complainant, to the college President and to the District Affirmative Action Officer for information purposes.

The President will act as described in the circumstances that follows:

1. The President will ask the campus certificated management representative to the District Advisory Committee on Affirmative Action to consult with the person mentioned in the complaint and such other persons as may be necessary to resolve the complaint. The supervising manager of the person accused must be consulted in this process, and the accused will be given a copy of the written accusation.

2. If the problem cannot be resolved to the satisfaction of all parties at Step 1 within five working days, the campus management Affirmative Action representative will transmit the written and signed complaint to the President. At this point, the President may either dismiss the matter for cause stated in writing to all parties or remand the case to a formal hearing. The President must act within five working days.

Step 4

If a formal hearing is held, the following procedures will be employed by the college Grievance Committee:

1. Both parties will be asked to attend the hearing and will be given sufficient notice in writing as to the time and place. Notice shall be given by certified mail at least five working days prior to the hearing date.

2. At the time of the hearing, the chairperson shall state the charge. The committee shall hear testimony, examine witnesses and receive all evidence pertaining to the charge.

3. Both parties shall have the right to present statements, testimony, evidence and witnesses. Each party shall have the right to be represented by a single advisor. If the person who is the subject of the complaint elects to have legal counsel present at the hearing, he/she must notify the College/District in sufficient time so that the District might arrange to have its own legal counsel available.
Appendix IV
Student Rights & Responsibilities

I. ASSOCIATED STUDENTS
The Governing Board of the Ventura County Community College District recognizes the need for and authorizes the operations of the Associated Students in accordance with Education Code sections 10701 to 10705, inclusive.

II. PRIVILEGES OF STUDENT ORGANIZATIONS
A. To use the name of one of the colleges or to use college facilities for regular meetings or special events, student organizations must be chartered by the Associated Students.
B. Recognized student organizations shall not use District facilities for the purpose of planning or implementing off-campus political or social events, nor use the name of the colleges in conducting such off-campus events, unless authorized by the Associated Students.
C. A chartered student organization shall have a faculty advisor who shall be chosen by the members of that organization and approved by the Vice President, Student and Educational Services. Institutional recognition shall not be withheld or withdrawn solely because of the inability of a student organization to secure an advisor.
D. Chartered student organizations shall be open to all students without respect to race, creed or national origin.

III. OFF-CAMPUS AFFILIATIONS
Any organization (whether official or unofficial) of students on the college campuses which, in its constitution or method of operation, vests control of its policies in an off-campus organization, shall not be recognized as an official college organization and shall not be allowed to use the facilities of the District.

IV. ADVOCACY AND FREE EXPRESSION
A. Purpose. The primary purpose of a college is the advancement and dissemination of knowledge. Free inquiry and expression are indispensable to the attainment of this purpose. The colleges of the Ventura County Community College District have the responsibility to establish and maintain general conditions conducive to an orderly and open examination of ideas and issues relevant to the primary purpose referred to above.

B. Registered Students. Students of the Ventura County Community College District have the right of free expression and advocacy and may exercise this right within the framework outlined below:
1. That the cause or issue being advocated is legal.
2. That the District's outside speaker policy is observed.
3. That college rules regulating time, place, and manner, developed by a student/faculty/administrator committee at each college and approved by the college President or his designated representative are respected.
4. That if, in the judgment of the President of the college or his designated representative, an activity or event is disruptive or incompatible with the educational objective of the college, he may order individual students or chartered student organizations, to discontinue the activity or event pending due process by either college and/or civil agencies. Due process is defined by a student/faculty/administrator committee at each college and approved by the college President.

C. Non-Students. The colleges of the Ventura County Community College District are provided for the purposes commonly ascribed to higher education. Non-students who wish to pursue these purposes at one of the colleges of the District are encouraged to enroll as registered students. However, in regard to any event or activity that takes place on one of the college campuses of the Ventura County Community College District, non-students are governed by the same rules that apply to registered students.

D. Maintenance of Order. It shall be the policy of the Governing Board of the Ventura County Community College District to cooperate with all established governmental agencies in the maintenance of order on and about its properties. This cooperation shall in no way infringe upon or limit the use of these properties for the purposes historically and legally reserved for them. The President of the Board, as appropriate, shall convene a special meeting for the purpose of taking proper action to support the District and college administrations in carrying out the policy referred to in this section.

V. DRESS CODE
The dress of persons appearing on the campuses of the Ventura County Community College District shall conform with generally accepted standards of hygiene and good taste. Clothing that is worn shall be such as to avoid interference with the educational responsibilities of the District, or with any other approved activities taking place within the District's jurisdiction.

VI. SOLICITATION
The solicitation, selling, exposing for sale, offering to sell, or endorsing any goods, articles, wares, services or merchandise of any nature whatsoever for the purpose of influencing lease, rental or sale at a college is prohibited except by written permission of the District Chancellor, President of the college or the President's designee. This policy applies to all students, staff and citizens. Nothing in this policy shall be construed to revoke the rights and privileges of students and staff as specifically granted by Education Code sections and Board policy with regard to fund raising activities (EC 79062), examination of instruction materials (EC 78904, 78905), or other activities sanctioned by federal, state and local regulations.

VII. NOTICES & POSTERS
Student and other college developed posters and flyers may be distributed or displayed in the following ways:

A. Clearly identified as having Moorpark College sponsorship may be circulated and posted without bearing the "approved for posting" stamp.

VIII. USE OF COLLEGE FACILITIES
A. The purpose of these policies is to assure the full effective use and enjoyment of the facilities of the college campus as an educational institution. Ordinarily procedures are necessary to promote the use of facilities by students and college personnel, to conserve and protect facilities for educational use and to prevent interference with college functions.
B. Available college facilities may be used and shall be reserved in advance for meetings and other events related to their purpose by:
1. chartered student organizations
2. certified personnel
3. organizations of college employees
4. the associated students
5. groups of ten or more students
6. community organizations and groups under the Civic Center Act. (Education Code, 16551-16556).

C. Reservation of college facilities shall be made in the Office of the Dean, Instructional Services a reasonable time in advance of the event to permit schedule to be arranged. Reservations will be granted in the order of application, unless considerations of format, room size or equitable distribution of special facilities will require adjustments. Student groups should also seek approval from the Advisor to Student Activities.

D. The college may make reasonable charges for the use of college facilities by community groups in accordance with the civic center charges as published by the Ventura County Community College District.

E. Outdoor Meetings and Events
1. Students and college personnel may gather at reasonable places and times on the campus consistent with the orderly conduct of college affairs and the free flow of traffic. Interference with entrances to buildings and college functions or activities, disturbance of offices, classes and study facilities and harm to property are prohibited.
2. The campus center patio is available as a discussion area. The Vice President, Student and Educational Services may approve other areas if unusual circumstances require.
3. Voice amplification will be permitted in the above areas between 11:30 a.m. and 12:30 p.m. on Fridays. Voice amplification equipment will be provided by the college upon request and without charge. No other voice amplification equipment may be used. The Vice President, Student and Educational Services may arrange for voice amplification at other times or places on the campus if unusual circumstances require. The volume and direction of voice amplification will be adjusted to reach no farther than the audience present.

F. Tables
1. Student organization and groups cited may maintain a table in the following areas:
   a. foyer of the campus center
   b. patios of the campus center
   c. mall
2. Tables shall be staffed at all times. The name of the sponsoring organization shall be displayed at each table.
3. Tables shall be furnished by the Associated Students.
4. Posters shall be attached to the tables.
5. Tables may be used to distribute and exhibit, free of charge, non-commercial announcements, statements and materials and for fund raising. Distributing or soliciting by means of accosting individuals or by shouting is prohibited.

Appendix V
Student Grievance

I. PURPOSE
Students are encouraged to pursue academic studies and other college-sponsored activities in order to promote intellectual growth and personal development. In seeking these ends, students should be free from improper interference by other members of the college community.

A grievance may be initiated by a student whenever the student believes that she or he has been subject to unjust actions or denied normal rights as stipulated in college regulations and in the State Education and Administrative Codes. A grievance may be initiated by a student against any other student or employee of the college.

II. DEFINITION
A grievance is an allegation of unjust action or denial of student rights. A grievance exists only when a specific educational wrong has occurred to a single student. This wrong must involve an unjust action or denial of student rights as defined in a specified college, college district or superior legal covenant or judgment. A grievance exists only when such an error or offense has some demonstrably correctable result. The outcome of a grievance must produce a tangible benefit to the student complaining or an actual redress of the wrong rather than a punishment for the person or persons found in error.

III. PROCEDURES
A. Informal Processes
When a student believes that a personal injustice has been sustained, an attempt should first be made to resolve the concern by informal means. Consultation should be made with the student, faculty member, administrator or classified person involved in order to seek direct resolution. If this process fails or, for some reason, cannot be accomplished, the aggrieved student should confer with the direct supervisor of the person allegedly causing the problem. If both of these steps are unsuccessful, the aggrieved student should discuss the problem with the Vice President, Instructional Services (for all programs and services controlled by this person) or the Vice President, Student and Educational Services (for all other college programs and services).

B. Formal Processes
If the aggrieved student believes that the informal consultation processes mentioned in III.A. have failed, the procedures and rules described below must be followed by both the student and the college. This process represents the formal grievance procedure of the college. However, the entire formal grievance process shall be discontinued at any time the parties can informally agree on a mutually satisfactory result. All formal records will be destroyed in this instance.

Resolution of grievances may not abrogate state or federal laws and applicable Governing Board rules and policies.

1. College Grievance Committee shall be established by the college President at the opening of each academic year. This committee shall be composed of one faculty member, one enrolled student and one administrator. The chairperson will be designated by the President. Committee members are appointed by and serve at the pleasure of the President. If, in the judgment of either participant in a formal grievance or the President, a conflict of interest or bias exists with any committee member, that member will be excused and a substitute appointed for the case in question only.

A formal grievance must be filed with the Vice President, Student and Educational Services within 90 calendar days of the final event in a sequence of events if any. The 90-day period shall commence on the day of the event or on the day of first knowledge of the event by the complaining party. Proof of the latter delayed date is the responsibility of the complaining party.

2. A formal grievance exists when the Vice President, Student and Educational Services receives a signed written charge specifying the time, place and nature of the injury from the aggrieved student. This written charge should be dated and must be on behalf of an individual student only. Group or class action grievances are not permitted. This charge must also clearly specify the informal consultation attempts made and described in Section A.

3. The Vice President, Student and Educational Services will verify the completeness of the written charge and present the charge to the Grievance Committee within ten working days of receipt.

4. The Grievance Committee will review the charges made (Section B.2.) within five working days and request a response in writing from the person accused. This person must reply within ten working days. Upon receipt of this response, the committee shall meet and recommend to the President that (a) the case be dismissed or (b) the reasonable cause for a hearing exists. This action must take place within five working days.

5. The President will then either dismiss the case with the reasons set out in writing to both parties or request that the Grievance Committee hold a formal hearing. The President must take this action within five working days of receipt from the committee (Section B.4.).

6. Formal hearing procedures:
   a. A hearing will be called by the chairperson within fifteen
Appendix VI
Student Conduct Code

Standards of Student Conduct (E.C.S. 66300)

In joining the academic community, the student enjoys the right and shares the responsibility in exercising the freedom to learn. Like members of the academic community, the students are expected to conduct themselves in accordance with the standards of the college that are designed to perpetuate its educational purposes. 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. A charge of misconduct may be imposed upon a student for violating provisions of college regulations and the State Education and Administrative Codes. Where a student is subject to a charge of misconduct, such charge shall be processed in accordance with the following policy and procedure.

Disciplinary action may be imposed upon a student by an instructor, an administrator or the Governing Board for proven misconduct or actual violation of specified college rules and state regulations. Instructors and administrators may place students on probation or temporary suspension with respect to actions in a classroom, on campus or at a college-sponsored activity within the procedures specified in this document. The Vice President, Student and Educational Services shall have the power to impose suspension and to recommend expulsion.

Students are subject to charges of misconduct for any of the following acts on college-owned or controlled property or at a college-sponsored activity:

1. Willful disobedience to directions of college officials acting in performance of their duties.
2. Violation of college rules and regulations, including those concerning student organizations, the use of college facilities, or the manner, place and manner of public expression or distribution of materials.
3. Dishonesty, such as cheating, or knowingly furnishing false information to the college.
4. Unauthorized entry to or use of the college facilities.
5. Alteration, forgery, or misuse of college documents or records. Identification.
6. Obstruction or disruption of classes, administration, disciplinary procedures, or authorized college activities.
7. Theft of or damage to property or possession of stolen property belonging to the college, a member of the community, or a campus visitor.
8. Disorderly, lewd, indecent, or offensive conduct.
9. Obscene, lewd or slandering expression, or expression which so incites students as to create a clear and present danger of the commission of unlawful acts on the college's campus, the violation of lawful college regulations or the substantial disruption of the college's orderly operation.
10. Assault or battery, or any threat of force or violence directed toward any member of the community or campus visitor engaged in authorized activities.
11. Use, possession, distribution of alcoholic beverages, narcotics or hallucinogenic drugs, or presence on campus while under the influence of alcoholic beverages, narcotics or hallucinogenic drugs, marijuana, or other dangerous drugs, except as expressly permitted by law.
12. Possession, while on the college campus or at any on- or off-campus college-sponsored function, of any of the following weapons (except persons given permission by the college President or his/her designated representatives or members of the law enforcement agencies, as police officers); any instrument or weapon of any kind commonly known as blackjack, sling shot, fire bomb, billy club, sand club, sandbag, metal knuckles, any .45, dart, dagger, fire arm (loaded or unloaded), as pistol, revolver, rifle, etc., any knife having a blade longer than five inches, any switchblade longer than two inches, any razor with an unguarded blade; any metal pipe or bar used or intended to be used as a club; or any item used to threaten bodily harm.

Student Conduct: Disciplinary Action

Student conduct must conform to the Student Rules of Conduct established by the Governing Board of the Ventura County Community College District in collaboration with college administrators and students. Violations of such rules are subject to the following types of disciplinary actions which are to be administered by appropriate college authorities against students who stand in violation. The Ventura County Community College District has established due process for the administration of the penalties enumerated here. Penalties are listed in degrees of severity. College authorities will determine the appropriate penalty(ies):

1. WARNING -- Notice to the student that continuation or repetition of specified conduct may be cause for other disciplinary action.
2. REPRIMAND* -- Written reprimand for violation of specified rules. A reprimand serves to place on record that a student's conduct in a specific instance does not meet the standards expected at the college. A person receiving a reprimand is notified that this is a warning that continued conduct of the type described in the reprimand may result in formal action against the student.
*Note: Warnings and reprimands may be appealed directly to the President. They are not subject to a student conduct hearing.
3. DISCIPLINARY PROBATION -- Exclusion from participation in privileges or extracurricular college activities set forth in the notice of disciplinary probation or involves notification in writing of the reason for disciplinary probation to the student(s) or president of the student organization involved.
4. RESTITUTION -- Reimbursement for damage or for misappropriation of property. Reimbursement may take the form of appropriate
service to repair or otherwise compensate for damage.

5. SUMMARY SUSPENSION -- A summary suspension is for the purposes of investigation. It is a means of relieving the tension of the student body or individual class due to a serious infraction of student behavior standards, removing a threat to the well-being of the students, or removing for the good order of the college a student or student whose presence would prevent the continued normal conduct of the academic community. Summary suspension is limited to that period of time necessary to ensure that the purpose of the summary suspension is accomplished and in any case, no more than a maximum of five school days. Summary suspension is a type of suspension other than that ordinarily invoked by the instructor for disciplinary reasons in the classroom. The college President, Vice President, Student and Educational Services, or other staff member designated by the President may summarily suspend a student when he or she deems it necessary for the safety and welfare of the college.

6. DISCIPLINARY SUSPENSION -- Disciplinary suspension follows a hearing based on due process. It shall be invoked by the college President, appropriate administrator, or other staff member designated by the President, upon the student for misconduct when other corrective measures have failed or when the seriousness of the situation warrants such action.

7. EXPULSION -- An expulsion is a long term or permanent denial of all campus privileges including class attendance. The Governing Board may expel a student who has been convicted of a crime arising out of a campus disturbance, or after a hearing by a campus body, and has been found to have willfully disrupted the orderly operation of the campus.

Student Conduct: Due Process

A. Preliminary Action

1. The Vice President, Student and Educational Services shall receive and may issue any charge of alleged misconduct made against a student by another student, faculty member, administrator, or classified personnel. Such person shall sign and submit a written statement specifying the time(s), place(s), and nature of the alleged misconduct.

2. The Vice President, Student and Educational Services shall confer with the student for the purpose of advising the student of the charge, possible sanctions imposed upon him/her and his/her rights under college regulations, state and federal laws.

3. The Vice President, Student and Educational Services may also procure information relating to the charge from the student and other persons or sources. Whenever appropriate, the Vice President, Student and Educational Services shall assess, or cause to have assessed, damage to property and injury to persons or other forms of misconduct.

4. At this point, the Vice President, Student and Educational Services may take any of the following actions:
   a. Dismiss the charge for lack of merit.
   b. Issue a warning or letter of reprimand.
   c. Place the student on disciplinary probation, require restitution, place on summary or disciplinary suspension.
   d. Recommend expulsion.
   e. Remand the case to a Student Conduct Hearing.

5. At this time, if the student does not accept the Vice President, Student and Educational Services' decision, the Vice President, Student and Educational Services shall arrange for the meeting of the Student Conduct Hearing Committee, following the procedures outlined in Sections B and C of this document.

B. Composition of Student Conduct Hearing Committee

1. The Student Conduct Hearing Committee, hereafter referred to as the Hearing Committee, shall be set up as follows:
   a. One student, one faculty member, and one administrator (other than the Vice President, Student and Educational Services and his/her immediate staff). These persons are appointed by the college President.
   b. The President shall designate the chairperson of the Hearing Committee.
   c. A minimum of one committee shall be selected annually.
   d. Upon notification of the committee composition, each party is allowed one pre-emptory challenge, excluding the chairperson.
   e. A quorum shall consist of all three members of the committee.

f. The chairperson will allow any proposed member of the committee to decline participation in the hearing.

C. Formal Hearing Procedures

1. A hearing will be called by the chairperson within fifteen working days of the receipt of the Vice President, Student and Educational Services' request.

2. Both parties will be asked to attend the hearing and will be given sufficient notice in writing as to the time and place. Notice shall be given by certified mail at least five working days prior to the hearing date.

3. At the time of the hearing, the chairperson shall state the charge. The committee shall hear testimony, examine witnesses and receive all evidence pertaining to the charge.

4. Both parties shall have the right to present statements, testimony, evidence and witnesses. Each party shall have the right to be represented by a single advisor but not a licensed attorney.

5. The accused person and/or representative may be present as well as the aggrieved person and/or his/her representative. No other persons except scheduled single witnesses and the Hearing Committee members shall be present.

6. The person making the charge shall assume the burden of proof. The rule of confidentiality shall prevail at all stages of the hearing.

7. The Hearing Committee shall judge the relevancy and weight of testimony and evidence. It shall make a recommendation for disposition of the charge to the college President. Actions in this procedure shall be completed within five working days.

8. The Hearing Committee shall submit its findings of fact and recommend action to both parties and to the President of the college. Upon receipt of the findings and recommendations, the President of the college shall:
   a. Concur with the committee's recommendation.
   b. Not concur with the committee's recommendation.
   c. Take alternative action.
   d. The college President shall state in writing the reasons for the action taken on the committee's recommendations. The President shall act within ten working days.

9. If either party does not agree with the decision of the college President at this time, an appeal may be made to the Chancellor of the Ventura County Community College District; if he/she is still dissatisfied with the decision, an appeal may be made to the Governing Board who shall render the final decision.

Appendix VII

Drug Free Campus Policy

Standards of Conduct
A student enrolling in Moorpark College assumes an obligation to conduct him/herself in a manner compatible with the college's function as an educational institution. Student conduct at Moorpark College must conform to established 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:

- Possession, use or distribution of alcoholic beverages, narcotics, or other dangerous drugs on campus or at any off-campus sponsored college activity (except for legally prescribed for personal use).
- Any act, defined as a felony or misdemeanor under the laws of the State of California or which violates adopted college rules or regulations.

Section 10603 of the Education Code provides: "The governing board of any school district may make and enforce all rules and regulations needful for the good government and discipline of the schools under its charge. Any governing board shall enforce the provisions of this section by suspending, or if necessary, expelling a pupil who refuses or neglects to obey any such rules or regulations."

The Dangers of Drug Use
In spite of efforts to keep drug use a hidden habit, there are often visible effects on the user. Use of the drugs specified below may result in:

1. Alcohol
   a. Decreased performance
   b. Poor judgment and coordination
   c. More accidents
d. Drowsiness and mood swings  
e. Lower morale and increase in conflict with others  

2. Marijuana  
a. Disruption of space and distance  
b. Slower physical reflexes and poor coordination  
c. Forgetfulness and diminishing mental powers  
d. Drowsiness and mood swings  

3. Cocaine/Crack  
a. Shortened attention span  
b. Impairment of judgment and decision-making ability  
c. Lack of dependability  
d. Irritability and depression  
e. Crime (stealing to cover cost of drug)  

4. Opiates - (heroin; pain pills: codeine, darvon, vicodin, percocan)  
a. Impaired judgment and lowered efficiency  
b. Drowsiness and mood swings  
c. Disinterest in classroom safety  
d. Increase in illness and health problems  

5. Hallucinogens - (PCP, LSD, MDMA (Ecstasy), Designer Drugs)  
a. Loss of memory and concentration  
b. Sudden bizarre changes in behavior  
c. Moodiness and interpersonal conflict  

6. Amphetamines - (Benzedrine, dexedrine-cross tops, whites, uppers; Methamphetamines-crank, crystal)  
a. Impaired reflexes  
b. Sluggishness or hyperactivity  
c. Increased accidents  
d. Impaired judgment and decision making  

7. Sedatives - (Barbiturates; tranquilizers-valium, xanax; secanol, tludanols-reds, downers)  
a. Slowed reflexes and lower productivity  
b. Slower mental processes and depression  

8. Anabolic Steroids  
a. Kidney Dysfunction  
b. Sperm reduction  
c. Breast enlargement  
d. Premature baldness  
e. Acne  

Both drugs and alcohol may be damaging to the development of an unborn fetus. Physical and psychological addiction to these substances is clearly a risk.  

Penalties for Campus Drug Use Warning  
The college is required by federal law to take disciplinary action up to and including suspension or expulsion from school for students convicted of a campus drug offense.  

Students who have been convicted of certain drug-related Federal or State offenses may have their eligibility for Federal benefits, including financial aid, suspended. Students with three or more drug-related convictions may permanently lose eligibility for Federal financial aid.  

State and Federal penalties apply to anyone convicted of the manufacture, distribution, dispensation, possession or use of controlled substances.  

Misdemeanor convictions for campus drug use can result in a fine and incarceration of up to a year in a County jail. Relatively few drug-related infractions may be considered misdemeanor offenses, however. Most drug use convictions are defined as felony acts.  

Felony convictions for campus drug use can result in a substantial fine and a lengthy jail sentence in state prison. Convictions for manufacturing or possession for sale or use of substances are felony offenses.  

The bottom line? The price for drug use is high . . . let's keep Moorpark College a Drug Free Campus!  

Drug Free Campus Policy pamphlets are available in the Student Health Center. Confidential and non-punitive help is also available in the Student Health Center including referral to College Psychologist and community resources.
## Appendix VIII
Ventura County Community College District
1995-96 Nonresident Tuition Fee Charges and Refund Schedule

<table>
<thead>
<tr>
<th>Units Enrolled</th>
<th>Tuition Charge</th>
<th>1st Week Refund Regular and Summer</th>
<th>2nd Week Refund Regular</th>
<th>3rd Week Refund Regular</th>
<th>4th Week Refund Regular Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.6</td>
<td>67.00</td>
<td>7.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>1.0</td>
<td>114.00</td>
<td>64.00</td>
<td>35.50</td>
<td>7.00</td>
<td>7.00</td>
</tr>
<tr>
<td>1.5</td>
<td>171.00</td>
<td>121.00</td>
<td>78.25</td>
<td>35.50</td>
<td>35.50</td>
</tr>
<tr>
<td>2.0</td>
<td>228.00</td>
<td>178.00</td>
<td>121.00</td>
<td>64.00</td>
<td>64.00</td>
</tr>
<tr>
<td>2.5</td>
<td>285.00</td>
<td>235.00</td>
<td>163.75</td>
<td>92.50</td>
<td>92.50</td>
</tr>
<tr>
<td>3.0</td>
<td>342.00</td>
<td>292.00</td>
<td>206.50</td>
<td>121.00</td>
<td>121.00</td>
</tr>
<tr>
<td>3.5</td>
<td>399.00</td>
<td>349.00</td>
<td>249.25</td>
<td>149.60</td>
<td>149.60</td>
</tr>
<tr>
<td>4.0</td>
<td>456.00</td>
<td>406.00</td>
<td>292.00</td>
<td>178.00</td>
<td>178.00</td>
</tr>
<tr>
<td>4.5</td>
<td>513.00</td>
<td>463.00</td>
<td>334.75</td>
<td>206.50</td>
<td>206.50</td>
</tr>
<tr>
<td>5.0</td>
<td>570.00</td>
<td>520.00</td>
<td>377.50</td>
<td>235.00</td>
<td>235.00</td>
</tr>
<tr>
<td>5.5</td>
<td>627.00</td>
<td>577.00</td>
<td>420.25</td>
<td>263.50</td>
<td>263.50</td>
</tr>
<tr>
<td>6.0</td>
<td>684.00</td>
<td>634.00</td>
<td>463.00</td>
<td>292.00</td>
<td>292.00</td>
</tr>
<tr>
<td>6.5</td>
<td>741.00</td>
<td>691.00</td>
<td>505.75</td>
<td>320.50</td>
<td>320.50</td>
</tr>
<tr>
<td>7.0</td>
<td>798.00</td>
<td>748.00</td>
<td>548.50</td>
<td>349.00</td>
<td>349.00</td>
</tr>
<tr>
<td>7.5</td>
<td>855.00</td>
<td>805.00</td>
<td>591.25</td>
<td>377.50</td>
<td>377.50</td>
</tr>
<tr>
<td>8.0</td>
<td>912.00</td>
<td>862.00</td>
<td>634.00</td>
<td>406.00</td>
<td>406.00</td>
</tr>
<tr>
<td>8.5</td>
<td>969.00</td>
<td>919.00</td>
<td>676.75</td>
<td>434.50</td>
<td>434.50</td>
</tr>
<tr>
<td>9.0</td>
<td>1,026.00</td>
<td>976.00</td>
<td>719.50</td>
<td>463.00</td>
<td>463.00</td>
</tr>
<tr>
<td>9.5</td>
<td>1,083.00</td>
<td>1,033.00</td>
<td>762.25</td>
<td>491.50</td>
<td>491.50</td>
</tr>
<tr>
<td>10.0</td>
<td>1,140.00</td>
<td>1,090.00</td>
<td>805.00</td>
<td>520.00</td>
<td>520.00</td>
</tr>
<tr>
<td>10.5</td>
<td>1,197.00</td>
<td>1,147.00</td>
<td>847.75</td>
<td>548.50</td>
<td>548.50</td>
</tr>
<tr>
<td>11.0</td>
<td>1,254.00</td>
<td>1,204.00</td>
<td>890.50</td>
<td>577.00</td>
<td>577.00</td>
</tr>
<tr>
<td>11.5</td>
<td>1,311.00</td>
<td>1,261.00</td>
<td>933.25</td>
<td>605.50</td>
<td>605.50</td>
</tr>
<tr>
<td>12.0</td>
<td>1,368.00</td>
<td>1,318.00</td>
<td>976.00</td>
<td>634.00</td>
<td>634.00</td>
</tr>
<tr>
<td>12.5</td>
<td>1,425.00</td>
<td>1,375.00</td>
<td>1,018.75</td>
<td>662.50</td>
<td>662.50</td>
</tr>
<tr>
<td>13.0</td>
<td>1,482.00</td>
<td>1,432.00</td>
<td>1,061.50</td>
<td>691.00</td>
<td>691.00</td>
</tr>
<tr>
<td>13.5</td>
<td>1,539.00</td>
<td>1,489.00</td>
<td>1,104.25</td>
<td>719.50</td>
<td>719.50</td>
</tr>
<tr>
<td>14.0</td>
<td>1,596.00</td>
<td>1,546.00</td>
<td>1,147.00</td>
<td>748.00</td>
<td>748.00</td>
</tr>
<tr>
<td>14.5</td>
<td>1,653.00</td>
<td>1,603.00</td>
<td>1,189.75</td>
<td>776.50</td>
<td>776.50</td>
</tr>
<tr>
<td>15.0</td>
<td>1,710.00</td>
<td>1,660.00</td>
<td>1,232.50</td>
<td>805.00</td>
<td>805.00</td>
</tr>
<tr>
<td>15.5</td>
<td>1,767.00</td>
<td>1,717.00</td>
<td>1,275.25</td>
<td>833.50</td>
<td>833.50</td>
</tr>
<tr>
<td>16.0</td>
<td>1,824.00</td>
<td>1,774.00</td>
<td>1,318.00</td>
<td>862.00</td>
<td>862.00</td>
</tr>
<tr>
<td>16.5</td>
<td>1,881.00</td>
<td>1,831.00</td>
<td>1,360.75</td>
<td>890.50</td>
<td>890.50</td>
</tr>
<tr>
<td>17.0</td>
<td>1,938.00</td>
<td>1,888.00</td>
<td>1,403.50</td>
<td>919.00</td>
<td>919.00</td>
</tr>
<tr>
<td>17.5</td>
<td>1,995.00</td>
<td>1,945.00</td>
<td>1,446.25</td>
<td>947.50</td>
<td>947.50</td>
</tr>
<tr>
<td>18.0</td>
<td>2,052.00</td>
<td>2,002.00</td>
<td>1,489.00</td>
<td>976.00</td>
<td>976.00</td>
</tr>
<tr>
<td>18.5</td>
<td>2,109.00</td>
<td>2,059.00</td>
<td>1,531.75</td>
<td>1,004.50</td>
<td>1,004.50</td>
</tr>
<tr>
<td>19.0</td>
<td>2,166.00</td>
<td>2,116.00</td>
<td>1,574.50</td>
<td>1,033.00</td>
<td>1,033.00</td>
</tr>
<tr>
<td>19.5</td>
<td>2,223.00</td>
<td>2,173.00</td>
<td>1,617.25</td>
<td>1,061.50</td>
<td>1,061.50</td>
</tr>
<tr>
<td>20.0</td>
<td>2,280.00</td>
<td>2,230.00</td>
<td>1,660.00</td>
<td>1,090.00</td>
<td>1,090.00</td>
</tr>
<tr>
<td>20.5</td>
<td>2,337.00</td>
<td>2,287.00</td>
<td>1,702.75</td>
<td>1,118.50</td>
<td>1,118.50</td>
</tr>
<tr>
<td>21.0</td>
<td>2,394.00</td>
<td>2,344.00</td>
<td>1,745.60</td>
<td>1,147.00</td>
<td>1,147.00</td>
</tr>
<tr>
<td>21.5</td>
<td>2,451.00</td>
<td>2,401.00</td>
<td>1,788.25</td>
<td>1,175.50</td>
<td>1,175.50</td>
</tr>
<tr>
<td>22.0</td>
<td>2,508.00</td>
<td>2,458.00</td>
<td>1,831.00</td>
<td>1,204.00</td>
<td>1,204.00</td>
</tr>
</tbody>
</table>

75% Refund | 50% Refund | 50% Refund | 25% Refund | 25% Refund
---|---|---|---|---
| 882 | 882 | 882 | 882 | 882

*No refunds permitted if withdrawal occurs after the 4th week of a regular semester or the 3rd week of summer session.
# Appendix IX

Ventura County Community College District  
1995-96 Foreign Capital Outlay Surcharge and Refund Schedule

<table>
<thead>
<tr>
<th>Units Enrolled</th>
<th>Surcharge Amount</th>
<th>1st Week Refund Regular and Summer</th>
<th>2nd Week Refund Regular</th>
<th>3rd Week Refund Regular</th>
<th>4th Week Refund</th>
<th>*Regular Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>7.00</td>
<td>7.00</td>
<td>5.25</td>
<td>3.50</td>
<td>3.50</td>
<td>1.75</td>
</tr>
<tr>
<td>1.0</td>
<td>14.00</td>
<td>14.00</td>
<td>10.50</td>
<td>7.00</td>
<td>7.00</td>
<td>3.50</td>
</tr>
<tr>
<td>1.5</td>
<td>21.00</td>
<td>21.00</td>
<td>15.75</td>
<td>10.50</td>
<td>10.50</td>
<td>5.25</td>
</tr>
<tr>
<td>2.0</td>
<td>28.00</td>
<td>28.00</td>
<td>21.00</td>
<td>14.00</td>
<td>14.00</td>
<td>7.00</td>
</tr>
<tr>
<td>2.5</td>
<td>35.00</td>
<td>35.00</td>
<td>26.25</td>
<td>17.50</td>
<td>17.50</td>
<td>8.75</td>
</tr>
<tr>
<td>3.0</td>
<td>42.00</td>
<td>42.00</td>
<td>31.50</td>
<td>21.00</td>
<td>21.00</td>
<td>10.50</td>
</tr>
<tr>
<td>3.5</td>
<td>49.00</td>
<td>49.00</td>
<td>36.75</td>
<td>24.50</td>
<td>24.50</td>
<td>12.25</td>
</tr>
<tr>
<td>4.0</td>
<td>56.00</td>
<td>56.00</td>
<td>42.00</td>
<td>28.00</td>
<td>28.00</td>
<td>14.00</td>
</tr>
<tr>
<td>4.5</td>
<td>63.00</td>
<td>63.00</td>
<td>47.25</td>
<td>31.50</td>
<td>31.50</td>
<td>15.75</td>
</tr>
<tr>
<td>5.0</td>
<td>70.00</td>
<td>70.00</td>
<td>52.50</td>
<td>35.00</td>
<td>35.00</td>
<td>17.50</td>
</tr>
<tr>
<td>5.5</td>
<td>77.00</td>
<td>77.00</td>
<td>57.75</td>
<td>38.50</td>
<td>38.50</td>
<td>19.25</td>
</tr>
<tr>
<td>6.0</td>
<td>84.00</td>
<td>84.00</td>
<td>63.00</td>
<td>42.00</td>
<td>42.00</td>
<td>21.00</td>
</tr>
<tr>
<td>6.5</td>
<td>91.00</td>
<td>91.00</td>
<td>68.25</td>
<td>45.50</td>
<td>45.50</td>
<td>22.75</td>
</tr>
<tr>
<td>7.0</td>
<td>98.00</td>
<td>98.00</td>
<td>73.50</td>
<td>49.00</td>
<td>49.00</td>
<td>24.50</td>
</tr>
<tr>
<td>7.5</td>
<td>105.00</td>
<td>105.00</td>
<td>78.75</td>
<td>52.60</td>
<td>52.50</td>
<td>26.25</td>
</tr>
<tr>
<td>8.0</td>
<td>112.00</td>
<td>112.00</td>
<td>84.00</td>
<td>56.00</td>
<td>56.00</td>
<td>28.00</td>
</tr>
<tr>
<td>8.5</td>
<td>119.00</td>
<td>119.00</td>
<td>89.25</td>
<td>58.50</td>
<td>58.50</td>
<td>29.75</td>
</tr>
<tr>
<td>9.0</td>
<td>126.00</td>
<td>126.00</td>
<td>94.50</td>
<td>58.50</td>
<td>58.50</td>
<td>29.75</td>
</tr>
<tr>
<td>9.5</td>
<td>133.00</td>
<td>133.00</td>
<td>99.75</td>
<td>66.50</td>
<td>66.50</td>
<td>33.25</td>
</tr>
<tr>
<td>10.0</td>
<td>140.00</td>
<td>140.00</td>
<td>105.00</td>
<td>60.50</td>
<td>60.50</td>
<td>35.00</td>
</tr>
<tr>
<td>10.5</td>
<td>147.00</td>
<td>147.00</td>
<td>110.25</td>
<td>63.50</td>
<td>63.50</td>
<td>35.00</td>
</tr>
<tr>
<td>11.0</td>
<td>154.00</td>
<td>154.00</td>
<td>115.50</td>
<td>70.00</td>
<td>70.00</td>
<td>38.50</td>
</tr>
<tr>
<td>11.5</td>
<td>161.00</td>
<td>161.00</td>
<td>120.75</td>
<td>73.50</td>
<td>73.50</td>
<td>38.50</td>
</tr>
<tr>
<td>12.0</td>
<td>168.00</td>
<td>168.00</td>
<td>126.00</td>
<td>73.50</td>
<td>73.50</td>
<td>38.50</td>
</tr>
<tr>
<td>12.5</td>
<td>175.00</td>
<td>175.00</td>
<td>131.25</td>
<td>76.50</td>
<td>76.50</td>
<td>38.50</td>
</tr>
<tr>
<td>13.0</td>
<td>182.00</td>
<td>182.00</td>
<td>136.50</td>
<td>84.00</td>
<td>84.00</td>
<td>40.25</td>
</tr>
<tr>
<td>13.5</td>
<td>189.00</td>
<td>189.00</td>
<td>141.75</td>
<td>90.00</td>
<td>90.00</td>
<td>40.25</td>
</tr>
<tr>
<td>14.0</td>
<td>196.00</td>
<td>196.00</td>
<td>147.00</td>
<td>98.00</td>
<td>98.00</td>
<td>40.25</td>
</tr>
<tr>
<td>14.5</td>
<td>203.00</td>
<td>203.00</td>
<td>152.25</td>
<td>98.00</td>
<td>98.00</td>
<td>40.25</td>
</tr>
<tr>
<td>15.0</td>
<td>210.00</td>
<td>210.00</td>
<td>157.50</td>
<td>104.00</td>
<td>104.00</td>
<td>40.25</td>
</tr>
<tr>
<td>15.5</td>
<td>217.00</td>
<td>217.00</td>
<td>162.75</td>
<td>108.50</td>
<td>108.50</td>
<td>54.25</td>
</tr>
<tr>
<td>16.0</td>
<td>224.00</td>
<td>224.00</td>
<td>168.00</td>
<td>112.00</td>
<td>112.00</td>
<td>54.25</td>
</tr>
<tr>
<td>16.5</td>
<td>231.00</td>
<td>231.00</td>
<td>173.25</td>
<td>115.50</td>
<td>115.50</td>
<td>54.25</td>
</tr>
<tr>
<td>17.0</td>
<td>238.00</td>
<td>238.00</td>
<td>178.50</td>
<td>119.00</td>
<td>119.00</td>
<td>54.25</td>
</tr>
<tr>
<td>17.5</td>
<td>245.00</td>
<td>245.00</td>
<td>183.75</td>
<td>122.50</td>
<td>122.50</td>
<td>54.25</td>
</tr>
<tr>
<td>18.0</td>
<td>252.00</td>
<td>252.00</td>
<td>189.00</td>
<td>126.00</td>
<td>126.00</td>
<td>54.25</td>
</tr>
<tr>
<td>18.5</td>
<td>259.00</td>
<td>259.00</td>
<td>194.25</td>
<td>129.50</td>
<td>129.50</td>
<td>64.75</td>
</tr>
<tr>
<td>19.0</td>
<td>266.00</td>
<td>266.00</td>
<td>199.50</td>
<td>133.00</td>
<td>133.00</td>
<td>64.75</td>
</tr>
<tr>
<td>19.5</td>
<td>273.00</td>
<td>273.00</td>
<td>204.75</td>
<td>136.50</td>
<td>136.50</td>
<td>64.75</td>
</tr>
<tr>
<td>20.0</td>
<td>280.00</td>
<td>280.00</td>
<td>210.00</td>
<td>140.00</td>
<td>140.00</td>
<td>64.75</td>
</tr>
<tr>
<td>20.5</td>
<td>287.00</td>
<td>287.00</td>
<td>215.25</td>
<td>143.50</td>
<td>143.50</td>
<td>71.75</td>
</tr>
<tr>
<td>21.0</td>
<td>294.00</td>
<td>294.00</td>
<td>220.50</td>
<td>147.00</td>
<td>147.00</td>
<td>71.75</td>
</tr>
<tr>
<td>21.5</td>
<td>301.00</td>
<td>301.00</td>
<td>225.75</td>
<td>150.50</td>
<td>150.50</td>
<td>75.25</td>
</tr>
<tr>
<td>22.0</td>
<td>308.00</td>
<td>308.00</td>
<td>231.00</td>
<td>154.00</td>
<td>154.00</td>
<td>75.25</td>
</tr>
</tbody>
</table>

*No refunds permitted if withdrawal occurs after the 4th week of a regular semester or the 3rd week of summer session.
## Index

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Policies</td>
<td>11</td>
</tr>
<tr>
<td>Academic Renewal</td>
<td>14</td>
</tr>
<tr>
<td>Accounting</td>
<td>48</td>
</tr>
<tr>
<td>Accounting Applications</td>
<td>49</td>
</tr>
<tr>
<td>Adapted Computer Technology</td>
<td>163</td>
</tr>
<tr>
<td>Additional Degree Guidelines</td>
<td>258</td>
</tr>
<tr>
<td>Administration of the College (See Criminal Justice)</td>
<td>169</td>
</tr>
<tr>
<td>Administration Procedures</td>
<td>8</td>
</tr>
<tr>
<td>Admissions Information</td>
<td>7</td>
</tr>
<tr>
<td>Advanced Placement</td>
<td>13</td>
</tr>
<tr>
<td>Affirmative Action</td>
<td>175</td>
</tr>
<tr>
<td>Air Force (AFROTC) Program</td>
<td>18</td>
</tr>
<tr>
<td>Anatomy</td>
<td>45</td>
</tr>
<tr>
<td>Anatomy/Physiology</td>
<td>46</td>
</tr>
<tr>
<td>Anthropology</td>
<td>38</td>
</tr>
<tr>
<td>Appendix</td>
<td>175</td>
</tr>
<tr>
<td>Archaeology</td>
<td>38</td>
</tr>
<tr>
<td>Art</td>
<td>40</td>
</tr>
<tr>
<td>Assessment Testing</td>
<td>17</td>
</tr>
<tr>
<td>Associate in Arts Degrees</td>
<td>23</td>
</tr>
<tr>
<td>Associate in Science Degrees</td>
<td>23</td>
</tr>
<tr>
<td>Associated Student Body (ASB)</td>
<td>20</td>
</tr>
<tr>
<td>Astronomy</td>
<td>43</td>
</tr>
<tr>
<td>Astrophysics</td>
<td>43</td>
</tr>
<tr>
<td>Athletics</td>
<td>20</td>
</tr>
<tr>
<td>Auditing Policy</td>
<td>12</td>
</tr>
<tr>
<td>Behavioral Science</td>
<td>44</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>45</td>
</tr>
<tr>
<td>Biology</td>
<td>45</td>
</tr>
<tr>
<td>Bookstore</td>
<td>20</td>
</tr>
<tr>
<td>Botany</td>
<td>46</td>
</tr>
<tr>
<td>Business</td>
<td>48</td>
</tr>
<tr>
<td>Business Information Systems</td>
<td>52</td>
</tr>
<tr>
<td>Business Management</td>
<td>49</td>
</tr>
<tr>
<td>Cafeteria</td>
<td>20</td>
</tr>
<tr>
<td>Calendar</td>
<td>2</td>
</tr>
<tr>
<td>California Articulation Numbers (CAN)</td>
<td>30</td>
</tr>
<tr>
<td>Career Counseling</td>
<td>17</td>
</tr>
<tr>
<td>Certificates of Achievement</td>
<td>25</td>
</tr>
<tr>
<td>Certificates of Completion</td>
<td>25</td>
</tr>
<tr>
<td>Chemistry</td>
<td>55</td>
</tr>
<tr>
<td>Chicano Studies</td>
<td>57</td>
</tr>
<tr>
<td>Child Development</td>
<td>58</td>
</tr>
<tr>
<td>Class Attendance</td>
<td>12</td>
</tr>
<tr>
<td>College History</td>
<td>5</td>
</tr>
<tr>
<td>College Philosophy and Mission</td>
<td>5</td>
</tr>
<tr>
<td>College Services and Programs</td>
<td>20</td>
</tr>
<tr>
<td>Company Specific Educations and Training Program</td>
<td>22</td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>61</td>
</tr>
<tr>
<td>Computer Science</td>
<td>63</td>
</tr>
<tr>
<td>Computerized Composition</td>
<td>58</td>
</tr>
<tr>
<td>Counseling</td>
<td>17</td>
</tr>
<tr>
<td>Credit by Examination</td>
<td>12</td>
</tr>
<tr>
<td>Credit for Military Service</td>
<td>13</td>
</tr>
<tr>
<td>Credit/No Credit</td>
<td>13</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>66</td>
</tr>
<tr>
<td>Dance</td>
<td>68</td>
</tr>
<tr>
<td>Dean's List</td>
<td>13</td>
</tr>
<tr>
<td>Disabled Students Program &amp; Services</td>
<td>21</td>
</tr>
<tr>
<td>Dismissal</td>
<td>15</td>
</tr>
<tr>
<td>District Administrative Office (See: Administrative Office)</td>
<td>158</td>
</tr>
<tr>
<td>Drafting Technology/CAD</td>
<td>71</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>58</td>
</tr>
<tr>
<td>Economics</td>
<td>73</td>
</tr>
<tr>
<td>Educational Workload</td>
<td>10</td>
</tr>
<tr>
<td>EOP Services</td>
<td>19</td>
</tr>
<tr>
<td>Electronics Technology</td>
<td>74</td>
</tr>
<tr>
<td>Eligibility, Admissions</td>
<td>7</td>
</tr>
<tr>
<td>Engineering</td>
<td>78</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>80</td>
</tr>
<tr>
<td>English</td>
<td>81</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>85</td>
</tr>
<tr>
<td>Environmental Studies</td>
<td>85</td>
</tr>
<tr>
<td>Environmental Technology</td>
<td>78</td>
</tr>
<tr>
<td>Essential Skills</td>
<td>87</td>
</tr>
<tr>
<td>Exotic Animal Training &amp; Management</td>
<td>88</td>
</tr>
<tr>
<td>Expenses, Student</td>
<td>10</td>
</tr>
<tr>
<td>Extension Course Credit</td>
<td>13</td>
</tr>
<tr>
<td>Faculty Roster</td>
<td>170</td>
</tr>
<tr>
<td>Fees</td>
<td>9</td>
</tr>
<tr>
<td>Field Trips</td>
<td>14</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>18</td>
</tr>
<tr>
<td>Foundation, Moorpark College</td>
<td>5</td>
</tr>
<tr>
<td>French</td>
<td>92</td>
</tr>
<tr>
<td>Full-Time Student</td>
<td>10</td>
</tr>
<tr>
<td>General Education Requirements</td>
<td>34</td>
</tr>
<tr>
<td>California Lutheran University</td>
<td>31</td>
</tr>
<tr>
<td>California State University System</td>
<td>26</td>
</tr>
<tr>
<td>California State University, Northridge</td>
<td>26</td>
</tr>
<tr>
<td>Pepperdine University/Seaver College</td>
<td>31</td>
</tr>
<tr>
<td>University of California, Los Angeles</td>
<td>28</td>
</tr>
<tr>
<td>University of California, Santa Barbara</td>
<td>29</td>
</tr>
<tr>
<td>University of La Verne</td>
<td>32</td>
</tr>
<tr>
<td>Geography</td>
<td>93</td>
</tr>
<tr>
<td>Geology</td>
<td>95</td>
</tr>
<tr>
<td>German</td>
<td>97</td>
</tr>
<tr>
<td>Governing Board</td>
<td>169</td>
</tr>
<tr>
<td>Grading Policy</td>
<td>14</td>
</tr>
<tr>
<td>Graduation Requirements</td>
<td>23</td>
</tr>
<tr>
<td>Grants</td>
<td>19</td>
</tr>
<tr>
<td>Graphic Communications</td>
<td>98</td>
</tr>
<tr>
<td>Graphic Design</td>
<td>100</td>
</tr>
<tr>
<td>Health Education</td>
<td>102</td>
</tr>
<tr>
<td>Health Fee</td>
<td>9</td>
</tr>
<tr>
<td>Health Sciences</td>
<td>104</td>
</tr>
<tr>
<td>Health Sciences Institute</td>
<td>113</td>
</tr>
<tr>
<td>Health Services</td>
<td>18</td>
</tr>
<tr>
<td>Hebrew</td>
<td>116</td>
</tr>
<tr>
<td>History</td>
<td>117</td>
</tr>
<tr>
<td>Humanities</td>
<td>119</td>
</tr>
<tr>
<td>Independent Studies</td>
<td>14</td>
</tr>
<tr>
<td>Interdisciplinary Courses</td>
<td>22</td>
</tr>
<tr>
<td>Interior Design</td>
<td>121</td>
</tr>
<tr>
<td>International Student Program</td>
<td>7, 19, 179</td>
</tr>
<tr>
<td>International &amp; Intercultural Studies</td>
<td>123</td>
</tr>
<tr>
<td>Intersessional General Education Transfer Curriculum</td>
<td>25</td>
</tr>
<tr>
<td>Italian</td>
<td>124</td>
</tr>
<tr>
<td>Japanese</td>
<td>125</td>
</tr>
<tr>
<td>Journalism</td>
<td>126</td>
</tr>
<tr>
<td>Laser/Electro-Optics Technology (See Physics)</td>
<td>149</td>
</tr>
<tr>
<td>Leadership</td>
<td>139</td>
</tr>
<tr>
<td>Learning Diagnostic Center</td>
<td>21</td>
</tr>
<tr>
<td>Learning Resources Center</td>
<td>21</td>
</tr>
<tr>
<td>Learning Skills</td>
<td>157</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>128</td>
</tr>
<tr>
<td>Library Resources</td>
<td>11, 21</td>
</tr>
<tr>
<td>Lost and Found</td>
<td>20</td>
</tr>
<tr>
<td>Marketing</td>
<td>48</td>
</tr>
<tr>
<td>Mathematics</td>
<td>129</td>
</tr>
<tr>
<td>Matriculation</td>
<td>8</td>
</tr>
<tr>
<td>Microbiology</td>
<td>47</td>
</tr>
<tr>
<td>Microcomputer Applications</td>
<td>52</td>
</tr>
<tr>
<td>Music</td>
<td>20, 133</td>
</tr>
<tr>
<td>Network Engineer</td>
<td>74</td>
</tr>
<tr>
<td>Nursing Science</td>
<td>104</td>
</tr>
<tr>
<td>Nutritional Science</td>
<td>138</td>
</tr>
<tr>
<td>Parking Fee</td>
<td>9</td>
</tr>
<tr>
<td>Personal Growth/Leadership</td>
<td>139</td>
</tr>
<tr>
<td>Philosophy</td>
<td>140</td>
</tr>
<tr>
<td>Photography</td>
<td>142</td>
</tr>
<tr>
<td>Photocopying</td>
<td>142</td>
</tr>
<tr>
<td>Physical Education</td>
<td>144</td>
</tr>
<tr>
<td>Physical Science</td>
<td>146</td>
</tr>
<tr>
<td>Physics</td>
<td>149</td>
</tr>
<tr>
<td>Physiology</td>
<td>47</td>
</tr>
<tr>
<td>Political Science</td>
<td>151</td>
</tr>
<tr>
<td>Predental</td>
<td>104</td>
</tr>
<tr>
<td>Premedical</td>
<td>104</td>
</tr>
<tr>
<td>Prerequisites/Co-requisites</td>
<td>14</td>
</tr>
<tr>
<td>Pre veterinary</td>
<td>104</td>
</tr>
<tr>
<td>Printing Technology</td>
<td>98</td>
</tr>
<tr>
<td>Probation</td>
<td>15</td>
</tr>
<tr>
<td>Psychology</td>
<td>152</td>
</tr>
<tr>
<td>Radio/Television</td>
<td>154</td>
</tr>
<tr>
<td>Radiologic Technology</td>
<td>104</td>
</tr>
<tr>
<td>Reading</td>
<td>156</td>
</tr>
<tr>
<td>Recording Devices, Use of</td>
<td>16</td>
</tr>
<tr>
<td>Refunds/Credits</td>
<td>9, 182</td>
</tr>
<tr>
<td>Registration Procedures</td>
<td>19</td>
</tr>
<tr>
<td>Repeated Courses</td>
<td>12</td>
</tr>
<tr>
<td>Residency Requirements</td>
<td>8</td>
</tr>
<tr>
<td>Scholarships</td>
<td>18</td>
</tr>
<tr>
<td>School Age Child Care</td>
<td>58</td>
</tr>
<tr>
<td>Science and Technology</td>
<td>157</td>
</tr>
<tr>
<td>Sexual Harassment Policy</td>
<td>176</td>
</tr>
<tr>
<td>Sign Language</td>
<td>156</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>159</td>
</tr>
<tr>
<td>Sociology</td>
<td>160</td>
</tr>
<tr>
<td>Spanish</td>
<td>161</td>
</tr>
<tr>
<td>Special Education/Learning Skills</td>
<td>163</td>
</tr>
<tr>
<td>Speech</td>
<td>165</td>
</tr>
<tr>
<td>Student Activities</td>
<td>19</td>
</tr>
<tr>
<td>Student Conduct Code</td>
<td>179</td>
</tr>
<tr>
<td>Student Employment</td>
<td>19</td>
</tr>
<tr>
<td>Student Grievance Policy</td>
<td>20, 178</td>
</tr>
<tr>
<td>Student Privacy Rights</td>
<td>175</td>
</tr>
<tr>
<td>Student Rights &amp; Responsibilities</td>
<td>177</td>
</tr>
<tr>
<td>Student Services</td>
<td>17</td>
</tr>
<tr>
<td>Study Abroad Program</td>
<td>22</td>
</tr>
<tr>
<td>Television Courses</td>
<td>22</td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>166</td>
</tr>
<tr>
<td>Transcript</td>
<td>10</td>
</tr>
<tr>
<td>Transfer Center</td>
<td>18</td>
</tr>
<tr>
<td>Transfer Credit</td>
<td>16</td>
</tr>
<tr>
<td>Transfer Information</td>
<td>25, 32</td>
</tr>
<tr>
<td>Transportation</td>
<td>19</td>
</tr>
<tr>
<td>Tuition</td>
<td>9, 182</td>
</tr>
<tr>
<td>Urban Studies</td>
<td>168</td>
</tr>
<tr>
<td>Varsity Sports</td>
<td>20</td>
</tr>
<tr>
<td>Veterans Services</td>
<td>19</td>
</tr>
<tr>
<td>Withdrawal from College</td>
<td>16</td>
</tr>
<tr>
<td>Women's Center</td>
<td>18</td>
</tr>
<tr>
<td>Women's Studies Program</td>
<td>22</td>
</tr>
<tr>
<td>Work Study Program</td>
<td>19</td>
</tr>
<tr>
<td>Zoology</td>
<td>47</td>
</tr>
</tbody>
</table>

184