

**Moorpark College General Catalog
and Announcement of Courses
1994-1995**

Moorpark College is accredited by the
Accrediting Commission for Community and Junior Colleges of
the Western Association of Schools and Colleges, an institutional
accrediting body recognized by the Commission on Recognition of
Postsecondary Accreditation and the U.S. Department of Education.

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Important Notice - The Ventura County Community College District and Moorpark College have made every reasonable effort to determine that the information provided in this general catalog is accurate. Courses, programs and requirements together with other matters contained herein are subject to change without notice by the Governing Board and Administration of the Ventura County Community College District. The District and the College further reserve the right to add, amend, or repeal any of their rules, regulations, policies and procedures, consistent with applicable laws. All fees are subject to change at any time.

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The Ventura County Community College District Governing Board

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District Administrators:

Dr. Thomas G. Lakin Chancellor
Dr. Jeff Marsee Vice Chancellor, Administrative Services
Jerry D. Pauley Associate Vice Chancellor, Human Resources



Dr. Thomas G. Lakin
Chancellor



Dr. James W. Walker
President

1994-95 College Calendar

Fall Semester, 1994 -- August 22 - December 21, 1994

FALL 1994	
REGISTRATION	See Schedule of Classes
August 22	First day of instruction
	First day of late registration
September 2	Last day to add semester-length classes
	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. <i>No refunds or credits after this date.</i>
September 5	Labor Day - legal holiday
September 16	Last date to drop semester-length classes without a transcript entry
September 23	Last date to declare Credit/No Credit grading option for semester-length classes
November 11	Veterans Day - legal holiday
November 23	Last date to drop semester-length classes with a "W" grade
	Last day to apply for Fall 1994 graduation or Certificate of Achievement
November 24 & 25	Thanksgiving vacation
SPRING 1995	
REGISTRATION	See Schedule of Classes
December 15-21	Final examinations, Fall semester
December 21	End of Fall semester

Spring Semester, 1995 -- January 17 - May 19, 1995

January 17	First day of instruction
	First day of late registration
January 30	Last day to add semester-length classes
	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. <i>No refunds or credits after this date.</i>
February 10	Last date to drop semester-length classes without a transcript entry
February 17 & 20	Presidents' Days - legal holidays
February 22	Last date to declare Credit/No Credit grading option for semester-length classes
April 7	Last day to apply for Spring 1995 or Summer 1995 graduation or Certificate of Achievement
April 10-14	Spring break
April 28	Last date to drop semester-length classes with a "W" grade
SUMMER SESSION	
REGISTRATION	See Schedule of Classes
May 15-19	Final examinations, Spring semester
May 19	Graduation
	End of Spring semester

Summer Session, 1995

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

A registration calendar and deadline dates for Summer classes will also be found in the Class Schedule.

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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, 1967, the first classes were offered to 2,500 students. Dr. John J. Collins was appointed by 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 Moorpark College Foundation was formed in 1980 and spearheaded the construction of Griffin Stadium, the Charles Temple observatory and the Carlsberg Amphitheater. The Foundation Board of Directors is comprised of over 30 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 12,000 students -- ranging in age from 16 to 70 -- who are enrolled in day, afternoon and evening courses. Fifty-six percent of the students are women and 44 percent are men. Moorpark College has a minority population of 18 percent. 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 Administration of 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 personalized help in reading, writing, English, and math skills as well as computer techniques.

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 from the Executive Director of the Foundation at (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 Goals

Moorpark College is dedicated to meeting the educational needs of the community it serves. It is the primary objective of the College to provide educational experiences beyond the high

school level that will assist students in realizing their greatest potential. To achieve this goal, the College accepts the responsibility for providing programs that will:

1. Cultivate individual cultural and vocational abilities.
2. Assist students in perceiving and utilizing the resources in order to achieve a richer and more productive life.
3. Prepare students for citizenship in a free society.

The guiding philosophy of Moorpark College is based on an enduring belief that all people want to realize their own potential; armed with this powerful motivating force, they have the capacity to learn and to direct their own destiny. To make progress toward this major objective, it is essential that all members of the college community:

1. Have access to information about the natural environment, about themselves, about society and about their heritage.
2. Be provided an opportunity to gain understanding of important issues, concepts and relationships.
3. Enjoy freedom to inquire, to explore, to take issue and to choose.
4. Develop a level of competency that gives them a chance to become self-sustaining and discerning.

Objectives

Because the College is committed to fulfilling the varying individual educational needs of the high school graduates and the adults in the community, the following programs are provided by the College:

- General Education which offers intellectual and cultural experiences for the personal development needed by students to realize their full potential as individuals in a free society.
- Occupational programs to provide students with the skills and related instruction necessary for beginning employment, advancement, and retraining in a number of semiprofessional, industrial, business, and technical fields. The employment opportunities and needs of the area served by the College are emphasized.
- Developmental programs designed to make up students' inadequacies in certain areas in order to prepare them to undertake successfully further education and training at the college level.
- Guidance planned to make individual students aware of their abilities and opportunities in order that they may make suitable educational-vocational choices and may realize maximum benefit from their college experiences.
- Community Service and *Continuing Education* programs to provide for the cultural, social, intellectual and recreational needs of the area which the College serves.
- Cocurricular programs that provide students with opportunities for participation in creating activities that lead to their personal growth in leadership and in social and civic responsibility.

Accreditation

Moorpark College is accredited by the Western Association of Schools and Colleges, and copies of the most recent accreditation reports are on file in the President's Office for review upon request.

Admissions Information

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 and Nursing 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 parents/guardian petition the Dean of Student Services for admission as a special full-time student.

Foreign Students Definitions

A foreign 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 foreign students admitted each year.

Admission Requirements (F-1 visa student only)

Prior to admission, foreign 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);
8. Completed Foreign Student Information Application;
9. Completed Foreign Student Agreement;
10. Completed Foreign Student Financial Statement.

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 all aspects of 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 Admissions and Records 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) 986-5858. 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 institutions(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. Forms for mail registration are printed in the Schedule of Classes. The Schedule of Classes also contains the calendar of registration dates and the location of off-campus registration sites.

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.

Fees

Fees are all subject to change by the Governing Board of the Ventura County Community College District.

Enrollment Fee

A mandatory enrollment fee of \$13.00 per unit is charged. This fee is waived for high school Admissions Program students.

Health Fee

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

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 Vehicle 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 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 72252 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

Tuition is required of nonresident and foreign students. The 1994-95 tuition schedule has been established at \$110.00 per unit.

Foreign Student Capital Outlay Surcharge

A \$7.00 per unit surcharge will be assessed to students who are citizens of a foreign country.

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 semesters 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 deadline date. Only these official actions will make the student eligible for a refund or credit.

Nonresident Tuition Refunds

Eligibility and amount of nonresident tuition fee refund are determined by the date the student officially applies for a refund through the Office of Admissions and Records. Refunds require the approval of the Registrar's Office.

Refunds are determined by the number of units for which there were original financial charges. **NO** refunds shall be authorized beyond the third week of summer session or beyond the fourth week of the regular semester.

The Registrar's Office will notify the Campus Business Office in writing as to the amount of the refund. Refunds are based on the table of refunds which appears in Appendix VIII. The refund will be made by check from the District Administrative Services within a reasonable time following official notification.

The following schedule of refunds will be in effect for nonresident tuition students who withdraw from college:

Fall or Spring Semester

- 1st week..... 100% of Tuition less \$50 Admin. fee charge
- 2nd week..... 75% of Tuition less \$50 Admin. fee charge
- 3rd week..... 50% of Tuition less \$50 Admin. fee charge
- 4th week..... 25% of Tuition less \$50 Admin. fee charge

Summer Session

- 1st week..... 100% of Tuition less \$50 Admin. fee charge
- 2nd week..... 50% of Tuition less \$50 Admin. fee charge
- 3rd week..... 25% of Tuition less \$50 Admin. fee charge

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.

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.

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 Dean of Student 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

Academic Policies

Course Prerequisites, Corequisites, and Recommended Preparation

A course prerequisite states the preparation required to successfully complete a particular course; for example, a student enrolling in general chemistry is highly likely to have grave difficulty without adequate preparation in algebra.

A course corequisite states the course or courses in which a student must be concurrently enrolled.

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.

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 (student educational plan must be on file).
- 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).

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.

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 on 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 performance 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 graded 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 averages. However, units attempted for which NC is recorded shall be considered in probation and dismissal 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.

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.

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 mastery of 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, F, 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 students 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, Phil 1, 2, 3, 11, Photo 4, 9, RadT 49, and all 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 recommended in the Guide to the Evaluation of Educational Experiences in the Armed Services of the American Council on Education. 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 recommended in the Guide to the Evaluation of Educational Experiences in the Armed Services of the American Council on Education. 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 recommendations 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 college 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.

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.

Transfer Credit from Foreign Colleges and Universities

Students transferring to the Ventura County Community Colleges from foreign colleges or universities must have their transcripts evaluated by an agency approved by the College District.

Course work from non-English speaking countries must be evaluated by approved translating agencies. Students must submit their official transcripts to an approved agency and request that the agency forward the official evaluation to the college.

Course work attempted will normally be lower-division unit credit only. Requests for equivalent course credit are evaluated on an individual basis by the Office of Admissions. This review is based upon considerations of the recommendations of the transcript evaluation service and by the appropriate college discipline.

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 Examinations to the College's Office of Admissions will receive 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 catalog.) All examinations require a score of 3, 4, or 5.

Examination	College Credit	M.C. Course Equivalencies
American Government	3 Units	Pol Sc 3
American History	6 Units	Hist 7A, 7B
Art: History	6 Units	Art 1A, 3 Units Humanities electives
Art: Studio Drawing	6 Units	3 Units Fine Arts/GE, 3 Units Humanities electives, Consult Art Department
Art: Studio General	6 Units	3 Units Fine Arts/GE, 3 Units Humanities electives, Consult Art Department
Biology	6 Units*	Biol 2A, 2B (No lab Units)
Chemistry	10 Units*	Chem 1A, 1B (No lab Units)
English Language	6 Units	Engl 1A, 3 Units of elective credit
English Literature	6 Units	Engl 1A, 1B and Composition

European History.....	3 Units.....	Hist 1B
French Language.....	8 Units.....	Fr 1, 2
French Literature.....	8 Units.....	Fr 3, 4
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.....	6 Units*.....	Ph 10A/10B (No lab Units)
Physics C Mechanics.....	3 Units*.....	Ph 20A (No lab units)
Physics C Elec. & Magnetism...	3 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.

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.

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, issued for each 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.

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.

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 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.

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.

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 "W's" 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 Change Grade to Withdrawal," is available in the Office of Instruction.

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.

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.

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 semester-long class equal to twice the number of hours the class meets in one week), the instructor may, after due warning, request 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.

Offering of Course as Described in Catalog

Occasionally there may be course changes concerning prerequisites, 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.

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.

Dean's List

Special recognition is accorded students who complete a program 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 request 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.

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.

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.

Extension Course Credit

Normally credit is not granted for extension course work, including 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.

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.

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.
See Appendix IV.

Student Services

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. Placement 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 college Counseling Office.

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, a counselor will be assigned to assist him/her in making the choice and in selecting suitable courses.

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. In addition, counselors attempt to keep open some hours in their schedules for students who may come to the Counseling Center for immediate assistance.

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.

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.

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

Teaching Location	Phone #
UCLA	(310) 825-1742
Cal State San Bernardino	(310) 825-1742
USC	(213) 740-2670
Cal State Long Beach	(310) 985-5743
Harvey Mudd/Claremont Colleges	(714) 621-8123

Transfer Center

Moorpark College offers assistance to those students who have potential to transfer to four-year colleges and universities. Activities of the Center include:

Workshops offered throughout the year on a variety of topics related to transfer.

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.

Assistance with university admissions and financial aid 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.

Health Services

The Student Health Center is located in the Administration Building, Ext. 1413. A registered nurse is available daily and during evening hours on a walk-in basis. For a complete list of services, please refer to the Student Health Brochure.

Doctor Services include a General Practitioner, a Women's Clinic, and Clinical Psychologists during specified hours as posted in the Health Center and by appointment only.

Student Accidents must be reported within 72 hours of occurrence. It is the student's responsibility to report any accidents to the instructor, college trainer, or Health Center. 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 may be obtained from the Health Office.

Drug Free Campus Policy - see Appendix VII. (Confidential and non-punitive help is available through 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 obtain services and support. Comfortable chairs and a library of books, magazines, and pamphlets on a wide variety of women's issues are available. The Center also contains a bulletin board with up-to-date information on meetings, groups, and events of interest to women. A current research file on women's issues is maintained.

Information on Center-sponsored activities and referrals to other campus services (counselors, health services, library resources) as well as community services (welfare agencies, lawyers, health clinics) are provided.

The Center has noon-time lectures and discussions on topics of interest and controversy.

Student Financial Support Services

Financial Aid Programs

Financial assistance 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 recipients must be enrolled in a minimum of six (6) semester units. Students enrolled in 12 units or more will receive the maximum award. Full-time students are eligible to receive financial assistance for a period not to exceed three (3) years while attending any college in the Ventura County Community College District. Three-quarter and half-time students should check with the Financial Aid Office for eligibility. Continued eligibility requires successful completion of contracted units each semester with a minimum of 2.0 grade point average.

Various programs are available, including grants, loans, scholarships, and part-time employment support. These programs may be funded partially or totally by various levels of government, by the college district, by the student body and faculty, and by community donors. The financial aid programs are subject to change due to the fact that funds may become depleted or the level of participation by the various funding agencies may be reduced.

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).

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 simple 5% to 9% or variable interest 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 and assessment
- Specialization counseling
- Early registration
- Educational plan
- Tutoring referrals
- 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 dependent).
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 Engl 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 Affairs Office located in the Administration Building.

Student Activities

The Student Activities Office welcomes you to Moorpark College! We look forward to being of service to you while you are a student here. We are located in the Campus Center building within the Student Lounge, and are open 8:00 a.m. - 6:00 p.m. Monday through Friday. Student Activities is responsible for campus student organizations, student government, scholarships, special events, car-pooling, housing, job listings, and work-study placement. Stop by and see us if you need any of our services, or call us at 378-1434.

Housing

The Student Activities Office maintains a housing bulletin board in the Campus Center lobby with listings of rooms and homes for rent in the surrounding communities, and of those who are seeking a rental. If you need a roommate or a place to stay, come to the Student Activities Office for information about placing a notice on this bulletin board.

Student Employment

The Student Activities Office maintains job listing bulletin boards in the Campus Center lobby with currently available employment opportunities, both on and off campus. Clip boards with more job notices are on the wall in the Student Lounge. Work-study positions on campus also are offered through the Student Activities Office for those students who qualify.

Transportation

Need a ride to school? Want to share driving and expenses? Register for car-pooling in the Student Activities Office. Bus schedules for the Simi Valley and Moorpark areas are available in the Student Activities Office.

Organizations

There are a number of organizations at Moorpark College, including Alpha Gamma Sigma (Honor Society), Black Student Union, Latino Students Association, International Students Organization, Campus Environmental Activists, and more. If you would like information about existing organizations, or would like to start a new organization, please come to the Student Activities Office for information.

ASB (Associated Student Body) Cards

Your purchase of an ASB card helps to fund activities and events sponsored by the Associated Students. It entitles you to reduced admission to athletic events and student productions, and the right to compete for ASB scholarships. Several local merchants offer discounts with this card. You may buy the ASB card when registering for classes or at any time during the year by paying for it at the Student Business Office and bringing your receipt to the ASB Office to have your photo taken. The ASB Office is located inside the Student Lounge at the Campus Center, 378-1635.

Associated Student Government

You will become more closely involved with campus life if you participate in the Associated Student Government. Student elections are held twice a year, in Fall and Spring. If you would like more information regarding Student Government, please call 378-1635.

Scholarships

Scholarships are handled by the Student Activities Office. 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; family income is not always a factor, and you don't have to have a 4.0 GPA. Announcement of available scholarships is made on the Scholarship Bulletin Board in the Campus Center, and through brochures produced by the Student Activities Office. Reference material is available also for students to research scholarships on their own. For more information, please call 378-1434.

Poster Regulation

Any posters, flyers, or other printed materials which advertise programs or events that are clearly identified as having Moorpark College sponsorship may be posted without bearing an "Approved for Posting" stamp. All other items must be stamped in the Student Activities Office. No publicity materials may be attached to painted or glass surfaces, the exterior of buildings, vehicles, or on the sidewalks. Any materials posted incorrectly will be removed by Maintenance Staff.

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.

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.

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.

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.

Musical Groups

There are several vocal and instrumental music performing groups at Moorpark College which invite student participation. Performances consisting of a wide variety of music literature are presented on and off campus each semester. The Concert Choir also often participates in choral festivals.

The Moorpark Masterworks Chorale, comprised of experienced adult singers from many local communities, performs campus concerts, community seasonal concerts and special choral events. Their repertoire includes selections from the great choral masterpieces which are often accompanied by orchestra. Membership is by audition.

Two other vocal groups are available to students who are interested in opera and musical theatre. The Opera Workshop presents a varied program of opera and light opera masterpieces each year. The Summer Musical Theatre provides an excellent opportunity to students who wish to perform Broadway musicals. Both groups are open to students by audition.

The orchestra is open to all students who wish to rehearse and perform music for the orchestra.

Music Performance Organizations

The music performance opportunities in the Moorpark College Music Department include eight different instrumental and vocal performing organizations. They are the concert choir, masterworks chorale, opera and musical theatre, orchestra, wind ensemble, jazz band, chamber ensemble, and piano ensemble. These organizations are scheduled in the fall, spring, and summer sessions and offer students a wealth and variety of musical performance possibilities. Performances take place both on and off campus. For correct scheduling information check your current class-offering schedules.

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 Pavilion, 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 Director.

Special Programs

Community Services

The Community Services Program, as an integral part of the comprehensive college, strives to meet the lifelong learning needs of the citizens it serves through a diversity of educational activities: short-term courses, cultural and special events, seminars, travel-lecture films, and real estate continuing education units (CEUs). The program is self-supporting through the assessment of student fees.

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
- Specialized tutoring
- Registration assistance
- Test proctoring
- Special parking areas
- Academic and career guidance
- Special equipment including:
 - Tape recorders
 - Print magnifiers
 - Closed circuit television
 - 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. Many students need help in basic reading, spelling and arithmetic skills as well as individualized special techniques for the realization of their full potential academically or vocationally.

The student's problems are diagnosed and an individual program is designed to meet their needs. Students advance at their own rate using a large variety of instructional materials. Special classes and tutorial sessions provide assistance. Specialized tutoring in regular classes can be provided by arranging for individualized adaptations with instructors.

An educational program is planned at the Learning Diagnostic Center in the Student Services Building.

High Tech Center for the Disabled

The High Tech Center uses adapted computer technology to give disabled students access to both Apple and IBM personal computers. Special adaptations have been made to the equipment to provide access to physically disabled, blind, and deaf students. Special computer programs are available for students with acquired brain injuries and learning disabilities. In addition, the center has a voice-activated computer system and a Headmaster II for students who are unable to access the computer manually. The center provides individualized instructional programs on the computer in the areas of memory, critical thinking, learning strategies, keyboarding, use of the word processor, language skills, math skills, spelling, career interest areas, and vocational advisement. 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 60,000 books, 267 current periodical titles (magazines, newspapers and journals) and 181 periodical titles on microfilm. Also available are audio cassettes, video tapes and phonograph records.

The library reference collection maintains traditional research materials as well as pamphlet files, college catalogs, and an extensive collection of career and scholarship information. A computerized subject index to periodical articles is located in the reference area. Interlibrary loan service is available to borrow materials owned by other libraries. Professional librarians are on duty to assist students with research projects and to provide instruction in the use of library resources.

Individual study carrels, two group study rooms, and a typing room are provided for student use. The library has coin-operated photocopy machines and microfilm reader/printers.

Library materials may be checked out to registered Moorpark College students, faculty and staff. The loan period for most materials is two weeks. Items on reserve for courses are available at the library circulation desk and may be requested by instructor's last name.

The library hours are Monday through Thursday 7:30 a.m. - 8:30 p.m. and Friday 7:30 a.m. - 4:30 p.m.

Center for Learning Assistance Services (CLAS)

The educational philosophy that characterizes CLAS, the Center for Learning Assistance Services is one that focuses on the individual. It is one that not only allows, but also requires, the learner to participate in the learning process. It accommodates all students regardless of their learning rates, styles, strengths, or weaknesses. The Center is located on the second floor of the Library room L-222.

There are three main service areas: Essential Skills, Academic Skills Materials, and Tutorials.

Essential Skills

Small group and individualized instruction are provided through Essential Skills (ES) laboratory courses provided by the Essential Skills Lab instructors. Diagnostic assessment, advisement, and specialized assistance are provided and multimedia and computer-aided instructional techniques and materials are assigned. Courses are offered in reading, writing, math, and study skills.

Enrollment in Essential Skills courses is on an Easy Entrance/Easy Exit credit/no credit basis any time during the semester. The descriptions of these classes are presented in the Essential Skills course descriptions appearing in the Program/Announcement of Courses section of the catalog.

Academic Skills Materials

Course-related materials for supplemental use are available in multimedia format including the use of computers.

Tutorials

This service offers one-on-one and small group, course-related tutoring by qualified, instructor-referred tutors at no charge. The tutors are well-qualified student peers who have been referred by instructors from the specific disciplines.

Interdisciplinary Courses

Interdisciplinary courses are designed to provide the student with credit meeting general education requirements in more than one area of study. These courses are team-taught by two or more teachers and present the student with ideas from different points of view by individuals who have studied and been trained in the particular disciplines included in the course. Different combinations of courses are available for varying units of credit. Consult the class schedule for particulars.

Women's Studies Program

The Moorpark Women's Studies Program is a selection of outstanding courses dealing with various issues and concerns of

women in today's society. These courses will assist women in obtaining a college degree, developing employable skills, increasing personal growth, and encouraging career options in non-traditional vocations. Units earned 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.

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 eastern 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 History 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.

Degree Requirements and Transfer Information

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 regionally 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 alien 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. If not in attendance at the time of qualifying for graduation, completion of 24 units in residence at the colleges of the Ventura County Community College District to include at least 12 semester units in residence at the college granting the degree, selected from courses required for graduation. If the student designates a specific major, then at least 6 of the 12 units must be selected from major courses. The Governing Board may make exceptions to the residency requirements in any instance in which it is determined that an injustice or hardship would otherwise be placed upon an individual student.
- IV. Demonstrated competency in reading, written expression, and math.
 - a. Reading - Satisfactory completion of Read 1 or a higher level reading course or satisfactory score on TASK II test.
 - b. Written Expression - Satisfactory completion of Engl 2 or Engl 1A or satisfactory score on the VCCCD English test.
 - c. Math - Satisfactory completion of Math 1 or higher level course or satisfactory score on the VCCCD math 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 course in the area of health
 - (2) One course in Physical Education activity
- II. General Liberal Arts and Sciences AA 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 AA 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 course
 - 2. Physical Education - one course
 - 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, 2, 2L, 3, 5, 21, 41, 61; Phy Sc 1/1L; Ph 1, 1L, 5, 5L, 10A/10AL, 20A/20AL.
- B. Social Sciences
 - (1) American History or Institutions: Ch St **4**; Hist **3, 4, 5, 6, 7A, 7B, 12**; Hum 1; Pol Sc 1, 3; Urban 1A.
 - (2) Social and Behavioral Sciences: Anth **2, 3, 4, 6, 7, 9, 11**; Bus 42; Ch St **1, 2, 4**; Econ 1, 30; EATM 4; Geog 2, 3, 4, 7, 10; Hist 1A, 1B, **4, 5, 6, 7A, 7B, 8, 9, 12**; Hum **19, 42**; Pol Sc 1, 2, 3, 4; Psych 1A, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 30; Soc 1, **2, 4, 5, 6, 7, 8**; Urban 1A, 1B.
- C. Humanities
 - (1) Fine or Performing Arts: Art 1A, 1B, 2, 3, 4A, 8A, 12A, 14A, 15A; Engl 10A; Hum 2, 3, 4, 6; Mus 1, 6, 7, 8, 9A, 9B, 10, 12, 15; Photo 1A, 2; RT 9; ThA 1, 2A, 4A, 4B, 9.
 - (2) Humanities: Art 1A, 1B, 2, 3; Bus 42; 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, 3**; 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; Spn **1, 2, 3, 4, 41**; Spch 1; ThA 1.
- D. Language and Rationality
 - (1) English Composition: Bus 28; Engl 1A, 2; Hum 1, 2; Journ 2.

- (2) Communication or Analytical Thinking: CIS 4A; CS 1/1L, 10/10L, 18/18L; Engl 1C; 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, 2, 5, or 7 or NtS 1, 4.
 - (2) Any PE activity course.

- F. Ethnic/Women's Studies
 *The boldface courses are those acceptable for Ethnic/Women's Studies credit.

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.

Moorpark College offers designated Associate in Arts degrees in the following program areas:

- Archaeology
- Art
- Behavioral Science
- Biology
- Chemistry
- Environmental Studies
- International Studies
- Mathematics
- Music
- Social Science
- Theatre Arts - Acting
- Theatre Arts - Directing

Moorpark College offers designated Associate in Science degrees in the following program areas:

- Administration of Justice - Corrections
- Administration of Justice - Law Enforcement
- Astrophysics
- Biology
- Business
- Chemistry
- Child Development
- Computer Information Systems
- Computer Science
- Computerized Composition
- Electronics Technology
- Engineering
- Environmental Science
- Exotic Animal Training and Management
- Geology
- Graphic Design
- Interior Design
- Journalism
- Network Engineer
- Nursing Science
- Photography
- Photojournalism
- Physics
- Printing Technology
- Radio/Television
- Radiologic Technology
- Real Estate

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 courses as 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 herein.

Appeals to the above policy may be submitted on a petition available in the Counseling Office for approval by the Dean of Student 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
- Microcomputer Applications
- Music
- Network Engineer
- Printing Technology
- Real Estate

Certificates of Completion

Instructional divisions may award Certificates of Completion to students who have satisfactorily completed a course or a sequence of courses designed to lead them to specific types of employment, or upgrading of their skills.

Moorpark College offers Certificates of Completion in the following program areas:

- Drafting Technology/CAD
- School Age Child Care

Information for Transfer Students

Admission with advanced standing to the California public four-year colleges and universities is guaranteed to all students of

this state who meet the specified minimum requirements. These requirements are, basically, the completion of 56 acceptable¹ 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.² 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 refer to the catalog of that particular school and consult with a counselor.

¹The transfer credit for each Moorpark College course is shown with the course description in the Course Announcement section of this catalog.

²The UC system campuses: Berkeley, Davis, Irvine, Los Angeles, Riverside, San Diego, San Francisco, Santa Barbara, Santa Cruz. The CSU system campuses: Bakersfield, Chico, Dominguez Hills, Fresno, Fullerton, Hayward, Humboldt, Long Beach, Los Angeles, Northridge, Pomona, Sacramento, San Bernardino, San Diego, San Francisco, San Jose, San Luis Obispo, San Marcos, Sonoma, Stanislaus.

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 IGETC 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 IGETC 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 IGETC is not a requirement for transfer to a CSU or UC, nor is it the only way to fulfill the lower-division, general 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 - English Composition, 1 course, 3 semester units.
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.

Math 5**, 7**, 14, 15, 16A, 16B, 25A**, 25B**.

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, 2; Hum 3, 4, 5, 6**, 18; 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; 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 3, 4, 5**, 6, 7A**, 7B**, 8, 9, 10, 12, 15, 16; Pol Sc 1, 2, 3, 4, 8, 11; Psych 1A, 4, 5, 7, 8, 9; Soc 1, 2, 5, 7, 8.

Area 5: Physical and Biological Sciences

At least 2 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), 2; Chem 1A(L), 1B(L), 12(L)**, 13(L)**; Env Sc 1(L); Geog 1, 1L(L), 5, 5L(L); Geol 1(L), 2, 2L(L), 3, 5, 21; Ph 1/1L(L)**, 10A/10AL(L)**, 10B/10BL(L)**, 20A/20AL(L)**, 20B/20BL(L); Phy Sc 1, 1L(L)**.

Biological Sciences: An 1(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; Ger 1; Ital 1; Spn 1**.

*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.

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, has 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.*

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 after 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.

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 and9 units
Foreign Languages
- Area D:.....Social, Political and Economic Institutions....9 units
and Behavior; Historical Background
- 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 transfer 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 challenge by any of the schools of the CSU system.

Area A: Communication/Critical Thinking

9 units: One course from each group.

- A1 - Oral Communication
Spch 1, 2
- A2 - Written Communication
Engl 1A
- A3 - Critical Thinking
Engl 1C
Phil 7, 9
Spch 7

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, 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, 2, 3, 4A, 8A, 12A, 15A, 16A
- Hum 2, 3, 4, 5, 6
- Mus 1, 6, 7, 8, 9A, 9B, 10, 12, 18, 21
- Photo 1A, 2
- PE 46A, 48A, 49A, 53A
- ThA 1, 2A, 4A, 4B

C2 - Humanities

- Engl 1B, 10A, 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
- Phil 1, 2, 3, 4, 6, 11, 12
- Spn 1, 1A, 1B, 2, 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

D4 - Gender Studies

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

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, 30

D10 - Sociology and Criminology

Soc 1, 2, 4, 5, 6, 7, 8

Area E: Self Understanding/Development

3 units.

CD 30

HE 1, 2, 5, 7

Hum 1

NtS 1, 4

PG 2
PE (All P.E. Activity Courses)
Psych 1A, 3, 4, 5, 7, 8, 9, 10, 11, 13, 30
Soc 5, 8
Spch 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
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 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 600 or a CEEB Math score of 550.

Foreign Language -- *One course from:* Fr 2; Ger 2; Spn 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, 9, 12, 13; Env Sc 1; Geog 1, 1L, 5, 5L; Geol 1, 2, 2L, 3, 4, 5; Math 14, 16A, 16B, 25A, 25B; Phy Sc 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, 2, 3; 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-unit 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 Requirements 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 examination 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 language other than English may petition to be exempt from this requirement.

Courses to satisfy this requirement are:

Fr 2; Ger 2; Ital 2; Spn 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 Biological Science.

An 1; AnPhys 1, 1L; Anth 1; Astron 1, 1L; Biol 1, 2A, 2B, 3, 5, 16, 17; Bot 1; Chem 1A, 1B, 8, 9, 12, 13; Env Sc 1; Geog 1, 5; Geol 1, 2, 3, 4, 5; Micro 1; Phy Sc 1; Ph 1, 10A, 10B, 20A, 20B, 20C; 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 divisions.

Group A: Arts

Art 1A, 1B, 2, 3 (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

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

Group D: Philosophy/Religion

Phil 1, 2, 3, 11.

University of California, Santa Barbara

College of Letters and Sciences

General Education Requirements -- General education courses do not have to be completed prior to transfer to UCSB. All transfer students entering UCSB have the option of following this specific pattern of courses or completing the UC Transfer Core Curriculum.

Subject Requirements -- UCSB has a Subject A requirement which may be satisfied by the completion of English 1A with "C" grade or better prior to transfer. Students who do not complete this course prior to transfer must pass an examination or enroll in English 1 Subject A at UCSB prior to enrollment in English 2A at UCSB.

American History and Institutions Requirement -- Courses used to fulfill the American History and Institutions requirement may also be applied to General Education Requirements or major requirements or both, where appropriate.

	Bachelor of Science Degree	Bachelor of Arts Degree
Reading and Composition		
Area A: Engl 1A, 1B.	Two courses	Two courses
Foreign Language		
Area B: Fr 2; Ger 2; Ital 2; Spn 2.	One course	One course
Science		
Area C: C-1: An 1; AnPhys 1; Biol 1, 2A, 16; Bot 1; Phys 1; Zoo 1. C-2: Astron 1, 2; Chem 1A, 12; Geog 1; Geol 1, 2, 5; Ph 1, 10A.	If your major is in this category, no course work is required. (Biopsychology majors must take one course from C-1.)	C-1: one course C-2: one course (One additional course from C-3 after transfer to UCSB.)
Social Science		
Area D: D-1: Psych 1A, 4, 5, 8. D-2: Anth 2, 3, 4, 6* ; Ch St 2* , 4* ; Geog 2, 3, 4; Hist 3* , 4* , 5* , 6* , 7A* , 7B* , 12* ; Soc 1, 5. D-3: Econ 1, 2. D-4: Pol Sc 1* , 2, 3* , 4.	Two courses One course must be taken from D-3 or D-4. (If your major is in this category, no course work is required.)	Two courses One course must be taken from D-3 or D-4.
Western Civilization		
Area E: Hist 1A, 1B.	Two courses from Area E or four courses from Area F.	Two courses
Arts and Literature		
Area F-1: Art 1A, 1B, 2, 3; Hum 3, 4, 5, 6; Mus 7, 8, 9A, 9B; Photo 2; ThA 1, 4A, 4B.	Two courses, each from a different discipline	Two courses, each from a different discipline
Humanities		
Area F-2: 2-A: Engl 13A* , 13B* , 14, 15A, 15B, 17, 18* . 2-B: Engl 29A, 29B, 30, 31, 33.	One course from Area 2A; and one course from Area 2B	One course from Area 2A; and one course from Area 2B
Ethnicity Requirement: One course required. Anth 4, 6; Ch St 1, 2, 4; Hist 3, 4, 6; Pol Sc 7, 8; Soc 6.		
*American History and Institutions Requirement: One course from the following list or in combination with any of the boldface courses listed in areas D and F. AJ 1; Anth 6; Ch St 1, 2, 4, 8; Econ 4; Engl 13A, 13B, 18; Hist 3, 4, 5, 6, 7A, 7B, 8, 12; Pol Sc 1, 3, 7, 8, 11; Soc 2, 6, 8; Urban 1A, 1B. Courses offered by a single department can be applied to only one of the four areas -- C, D, E, or F. The above information is subject to change.		

University of Southern California

College of Letters, Arts, and Sciences

(See Counselor to determine the number of courses from each area for degrees in the Schools of Fine Arts, Music, and Business.)

Skills Levels

- I. **Freshman Composition:** English 1AB and pass USC's Skill Level Examination.
- II. **Foreign Language:** Pass USC's Skill Level Examination. (A passing score on the Foreign Language Skill Level Examination is usually achieved after three semesters of one language or the equivalent. Some majors do not require foreign language. For more information, consult USC's current bulletins.)
- III. **Math Skill Level:** Pass USC's Math Skill Level Examination OR Math 5, 7, 16A & 16B or 25A with a C or better.

Areas of Exposure	Coll. of Letters & Science B.A.	Coll. of Letters & Science B.S.	School of Business	School of Engineering
The Natural World				
1. Earth Sciences: Astron 1; Geog 1, 1L*, 5; Geol 1*, 2, 2L*, 3, 4*, 5, 21, 61.	one course (1)		Two courses from the natural world, each in a different area, no lab required.	
2. Life Sciences: An 1*; Biol 1*, 2A*, 2B*, 3*, 16, 17; Bot 1*; Env Sc 2*; Micro 1*; Phys 1*, 2; Zoo 1*.	one course (1)			
3. Physical Sciences: Astron 1; Chem 1A*, 1B*, 8 (with 9*), 12*, 13*; Env Sc 1*; Phy Sc 1; Ph 1, 10A, 10AL*, 20A, 20AL*, 20B, 20BL*, 20C, 20CL*.	one course (1)			
*meets Lab requirement				
Representative Cultures				
1. American Public Life: Ch St 1, 8; Hist 7B, 60V; Pol Sc 1, 3, 7, 8, 11; Soc 6; Urban 1A.	one course	(4)	(5)	One course (6) from any of these four areas.
2. Foundations of Western Culture I: Art 1A; Engl 29A, 29B, 30; Hist 1A; ThA 4A.	one course	(4)	(5)	
3. Foundations of Western Culture II: Art 1B; Engl 31; Hist 1B; ThA 4B.	one course (2)	(4)	(5)	
4. Non-Western Cultures: Anth 2, 6, 60C, 60I, 60J; Hist 6, 10, 15, 16; Phil 11; Pol Sc 60C.	one course	one course	one course	
Representative Approaches to the Study of the Individual, Culture and Society				
1. Empirical Approaches: Anth 1, 2, 3, 5, 9, 60R, 60S; Ch St 1, 2, 8; CD 30; Econ 1, 2, 4; Geog 2, 3, 10, 60N; Pol Sc 2, 4; Psych 1A, 1B, 4, 5, 8, 9, 10; Soc 1, 2, 3, 5, 6, 8; Urban 1A.	one course (3)	(4)	one course	One course (6) from any of these four areas.
2. Aesthetic Approaches: Literature Engl 13A, 13B, 14, 15A, 15B, 17, 18, 19, 20, 29A, 29B, 30, 31, 33, 60A.	one course	Two courses each from a different area.	one course	
3. Aesthetic Approaches: The Arts Art 1A, 1B, 2, 3; Hum 2, 3; Mus 7, 8, 9A, 9B; ThA 1, 4A, 4B.	one course		(5)	
4. Ethical Approaches: Phil 2.	one course		(5)	

- (1) Each course must be in a different department. One of the 3 must have a lab. B.A. majors in Sciences/Math are excepted from the restrictions, but must take 3 science courses.
- (2) Not required of Humanities majors.
- (3) Two (2) courses required for Humanities majors; one for Science and Science/Math majors.
- (4) Three (3) courses required. Choose from any of the following areas: American Public Life; Western Culture I & II; Empirical Approaches (from two disciplines).
- (5) Two (2) courses required. Choose from any of the following areas: American Public Life; Western Culture I & II; The Arts; and Ethical Approaches (from two disciplines).
- (6) In addition to the 2 courses, select another from one of the categories already chosen, and a fourth course from a category not previously chosen.

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). Spch 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; Ital 1-3; Japan 1-3; Spn 1-4.

D. Computer Competency

Level 1: Waived for those students who have completed Engl 1A at Moorpark.
Level 2: No Moorpark College equivalent.

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.
2. Literature -- one course from: Engl 1B, 13A, 13B, 15A, 15B, 17, 18, 19, 20, 21, 30, 31, 33.
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, 5; Bot 1; Chem 1A, 1B, 12, 13; Env Sc 1; Geog 1, 1L; Geol 1, 2, 2L; Micro 1; Phy Sc 1, 1L; 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

1. Two courses, one of which must include participation in one of the visual or performing arts, and only one of which may be less than two credits: Art 1A, 1B, 2, 3, **4A-13D**, **16A-18D**; Mus 1-2D, **3A**, 7-9B, **10-28** (except 22); Photo 1A-8; PE **43A-53D**; ThA 1, **2A-2D**, 3, 4A, 4B, **10-15B**, 16, **20**, 21, **23**, **24**. (Courses which are boldface meet the performance requirement.)

E. Health and Well-Being

1. NtS 4 or PE 2A.
2. Any other activity course.
3. A third PE activity course or HE 1 or 7.

(Note: Any students over the age of 25 at entrance will have the Health and Well-Being requirement waived.)

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 18, 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 over 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, 1B; 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+9, 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)

Spch 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.

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 A.A. or A.S. degree, courses with a grade of D will not transfer. With an A.A. or A.S., 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.

Courses taken in preparation for the major may be used to satisfy general education requirements. While a course may satisfy more than one general education group and/or area requirement, it shall not be counted more than once and any excess units in one area shall not apply to another area.

CAVEAT -- These courses and requirements are subject to change.

GENERAL EDUCATION REQUIREMENTS

Written English

Engl 1A and 1B.

Spoken English

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

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: Mus 10, 12, 15, 16, 17, 18, 19, 20, 21, 25A/B/C/D, 26, 32, 60J, 60K, 60P, 60T, 60V; PE 43A, 46A/B/C/D, 48A/B/C/D, 49A/B/C/D, 50A/B/C, 51A/B/C/D, 52A/B, 53A/B/C/D.

Mathematics

One course from:
Math 5, 7, 13, 15, 16A/B.

Symbolic

One course from:

Programming: CS 1, 2, 10, 17A/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, 3; Japan 1, 2, 3; 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, 12, 13; Geol 1, 2, 2L, 3, 4, 5, 21, 41; Phy Sc 1, 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, 9; Hist 6, 9, 10, 15, 16, 60R; Phil 11, 12.

Social Science

One course from:

Econ 1, 2; 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, 2.

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, 6, 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 twenty 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.

Programs, Transfer Majors and Announcement of Courses

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.

Administration of Justice

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 opportunities for men and women in all branches of law enforcement and corrections. Never before has there been such a demand for qualified persons in these occupational fields as now.

The Administration of Justice Program offers an education to students in the varied aspects of law enforcement and correctional work. A foundation of knowledge is provided for those interested in becoming competitive candidates for these interesting and challenging careers.

Career Opportunities

Municipal Police Officer	County Marshall
Group Supervisor & Counselor	Border Patrol Agent
State Traffic Officer (CHP)	Deputy Sheriff
State University Police Officer	Security Officer
County and State Park Ranger	Private Detective

Faculty

Full-Time	Part-Time	Counselors
David Harrington	Philip Anderson	Rick Cardoni
Mitchell Smith	James Murphy	Mike Johnson
	Martin Rouse	
	Arthur Ruditsky	
	Michael Sayre	
	Michael Webb	

Transfer Information

Certification and approval of the Administration of Justice curriculum have been given by the California State Commission of Peace Officers Standards and Training.

Major requirements for upper-division standing at:

California Lutheran University: AJ 1, 2.

California State University, Sacramento: AJ 1, 2, 3; for Management and Investigation add: AJ 11. AJ 4 is recommended.

University of California, Santa Barbara: Law and Society major with Criminal Justice emphasis: Econ 1, 2; Math 15; Phil 7; Pol Sc 3; Psych 1A; Soc 1.

Administration of Justice Corrections

Occupational

Associate in Science Degree

This program is designed to meet the continuing need for law enforcement specialists in the field of corrections.

Required Courses:	Units
AJ 1..... Intro to Administration of Justice	3
AJ 2..... Concepts of Criminal Law	3
AJ 3..... Community Relations	3
AJ 4..... Legal Aspects of Evidence.....	3
AJ 5..... Principles/Procedures of the Justice System	3
AJ 6..... Criminal Justice Report Writing	3

Required Additional Courses:

Select nine (9) units from the following courses:

AJ 14..... Juvenile Procedure.....	3
AJ 41..... Intro to Probation, Parole and Corrections.....	3
Bus 50..... Elements of Supervision	3
Psych 3..... Psychology of Interpersonal Relationships.....	3

Total minimum units required in major area -- 27

Recommended Courses: Pol Sc 3; Psych 1A; Soc 1

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

Administration of Justice Law Enforcement

Occupational

Associate in Science Degree

This program offers training of students in the varied aspects of law enforcement work. Background is provided for those interested in being recruited by law enforcement agencies as well as upgrading of skills for those already employed in law enforcement.

Required Courses:

	Units
AJ 1..... Intro to Administration of Justice	3
AJ 2..... Concepts of Criminal Law	3
AJ 3..... Community Relations.....	3
AJ 4..... Legal Aspects of Evidence.....	3
AJ 5..... Principles/Procedures of the Justice System	3
AJ 6..... Criminal Justice Report Writing	3
AJ 41..... Intro to Probation, Parole and Corrections.....	3

Required Additional Courses:

Select six (6) units from the following courses:

AJ 10..... Patrol Procedures.....	3
AJ 11..... Criminal Investigation.....	3
AJ 14..... Juvenile Procedure.....	3
AJ 18..... Narcotics Investigation.....	3
AJ 19..... Vice Control.....	3

Total minimum units required in major area -- 27

Recommended Courses: AJ 12; Pol Sc 3; Psych 1A; Soc 1

Suggested Course Sequence:

First Semester	Third Semester
AJ 1.....3	AJ 4.....3
AJ 2.....3	AJ 41.....3
6	Any Elective Course.....3
	9

Second Semester	Fourth Semester
AJ 3.....3	AJ 6.....3
AJ 5.....3	Any Elective Course.....3
6	6

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

Administration of Justice Courses

AJ 1 -- 3 Units

Introduction to the Administration of Justice

Class Hours: 3 lecture

Basic topics covered in this class include: the history and philosophy of administration of justice in America; recapitulation of the system; identifying of the various sub-systems, role expectations, and their interrelationships; theories of crime, punishment and rehabilitation; ethics, education and training for professionalism in the system. *Transfer credit: CSU; UC. CAN: AJ 2*

AJ 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 system of Administration of Justice; legal research, study of case law, methodology, and concepts of law as a social force. *Transfer credit: CSU; UC. CAN: AJ 4*

AJ 3 -- 3 Units Community Relations

Class Hours: 3 lecture

Students in this course make an in-depth exploration of the Administration of 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. Principal emphasis will be placed upon the professional image of the system, Justice Administration and the development of positive relationships between members of the system and the public. *Transfer credit: CSU; UC*

AJ 4 -- 3 Units Legal Aspects of Evidence

Prerequisites: AJ 1 and AJ 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. CAN: AJ 6*

AJ 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 administration of 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*

AJ 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*

AJ 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*

AJ 11 -- 3 Units Criminal Investigation (F)

Prerequisites: AJ 1 and AJ 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*

AJ 12 -- 1.5 Units Body Conditioning for Law Enforcement

Corequisite: PE 2A

Class Hours: 1 lecture, 2 activity

This class is designed to prepare students to compete successfully in the physical selection portion of civil service tests for Police Officer and Correctional Officer. If successfully completed, the student will also be prepared to endure the physical training inherent in an 18-week law enforcement academy. May be taken four (4) times for credit.

AJ 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*

AJ 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*

AJ 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*

AJ 22A/B -- 1-3/1-3 Units Independent Studies in Administration of Justice

Prerequisite: A previous course in Administration of Justice

Class Hours: 1-3 tutorial

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

AJ 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*

AJ 60A-Z -- 1-3 Units Topics in Administration of 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 Administration of Justice not covered in detail in the general Administration of Justice course offerings. Topic courses are announced on a semester basis in the schedule of classes.

Topics which have been developed include:

60A -- 2 Units

Arson Investigation I

Prerequisites: Completion of AJ 1, 2, 3, 4, 5

Class Hours: 40 lecture total

Instruction covers the fundamentals of fire investigation; motives; fire scene search and documentation; collection and preservation of physical evidence; sources of information; case preparation and follow-up. (This is a P.O.S.T. certified course designed to upgrade police/fire personnel.)

AJ 89A-Z -- .5-3 Units Institutes in Law Enforcement★

Prerequisites: AJ 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.

Anatomy

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

Anatomy/Physiology

All 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	Expedition Guide
Environmental Impact Analyst	Population Analyst
Health Researcher	Recreation Specialist
Urban Planner Assistant	Travel Consultant
Exhibit Designer	Tour Guide
Cultural Resource Management	Museum Curator

Faculty

Full-Time	Part-Time	Counselor
John Baker	Diane Brabant	Mike Johnson
Robert Lopez	Charles Eastman	
Thomas McAdam	Nadine Mandel-Toren	
Jack Reynolds	Michele Titus	

Transfer Information

Anthropology is a study of humans and their learned social behavior -- their cultures -- at all times and all over the world. Most graduates with a degree in Anthropology are likely to pursue careers in teaching, government service, research, law, or business.

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; (B.S.) Anth 1, 2, 3; Biol 2A; Chem 1A, 1B; Chem 8, 9 or Math 25A; Math 15; Zoo 1.

■ 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: Units
AREA A: Core courses in Anthropology, in the order recommended, for a total of 9 units.

Anth 3.....	Archaeology.....	3
Anth 2.....	Cultural Anthropology.....	3
Anth 1.....	Physical Anthropology.....	3

AREA B: Practical courses in Archaeological methodology for a total of 18 units. Courses in this area may be repeated two times.

Anth 5.....	Archaeological Field Methods.....	3
Anth 10.....	Archaeological Reconnaissance.....	3
Anth 12.....	Archaeological Laboratory Procedures.....	3

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.

Anth 5.....	Archaeological Field Methods (2X).....	3
Anth 10.....	Archaeological Reconnaissance (2X).....	3
Anth 12.....	Archaeological Laboratory Procedures (2X).....	3
Anth 60C.....	Indians of California.....	3
Anth 60I.....	The Chumash and Their Neighbors.....	3
Anth 60R.....	Archaeological Research Methods (2X).....	3
Anth 60S.....	Introductory Archaeological 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 Chicanos 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**Female of the Species**

Class Hours: 3 lecture

A survey of the evolution of female anatomy and behavior and an examination of the variety of women's roles and stereotypes in different types of cultures, including our own, from an anthropological perspective. *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 pending*

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 Director. 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.*

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.

60I -- 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.

60S -- 3 Units**Introductory Archaeological Field Methods Supervision***

Prerequisite: 12 units of Anth 5

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.

Art

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

Painter	Gallery Owner
Sculptor	Artist's Agent
Papermaker	Museum Worker
Printmaker	Art Researcher
Ceramicist	Fashion Designer
Jeweler	Cartoonist
Water Color Artist	Art Restorer
Mold Maker	Illustrator
Art Dealer	Advertising Assistant

Faculty

Full-Time	Part-Time	Counselors
Kirk Aiken	Lynn Creighton	Donna Proske Allyn
Christine Marx	William Dodgen	José de la Peña
Jack Noyes	Suzanne Duca	Don Henderson
Frank Sardisco	Richard Flores	
	Gaye Laguire	
	Gulhis Monezis	
	Gerald Swigger	
	Bonese Turner	

Transfer Information

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. (exclude Art 2)
 University of California, Santa Barbara: Art History: Art 1A, 1B; Photo 2. (Foreign Language and history courses are recommended)
 Studio Art: Art 1A, 1B, 4A, 4B, 8A, 12A, 16A; Hist 1A, 1B; Photo 1A.

■ 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:	Units
Art 1A Art History	3
Art 1B Art History	3
Art 4A Color and Design	3
Art 4B Three-Dimensional Design	3
Art 12A Drawing and Composition	3
Art 12B Drawing and Composition	3
Art 13A Life Drawing	3

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 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 3 -- 3 Units

Modern Art Forms

Class Hours: 3 lecture

Investigation of 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 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

Prerequisites: Art 8B and Art 4A

Class Hours: 1 lecture, 6 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 fundamental means of pictorial composition, depth perception, perspective and rendering. *Transfer credit: CSU; UC*. CAN: 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 illustrative drawing and 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 -- 3/3 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, stopouts 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 or 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 class 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 class deals with more 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**

ART 16D -- 3 Units Advanced Painting

Prerequisite: Art 16C

Class Hours: 1 lecture, 6 laboratory

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, water color, 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 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

Director. 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.*

ART 23 -- 3 Units Beginning Stained Glass Design

Class Hours: 1 lecture, 6 laboratory

This introductory class is intended to familiarize students with the art of stained glass. It includes the exploration of design sources and principles and the study of fabrication and embellishment techniques. *Transfer credit: CSU*

ART 24 -- 3 Units Advanced Stained Glass Design

Prerequisite: ART 23

Class Hours: 1 lecture, 6 laboratory

This advanced class is intended to expand student knowledge and ability regarding the art of stained glass. It includes exploration of more complex design sources and principles as well as advanced fabrication and embellishment techniques. May be taken two (2) times for credit. *Transfer credit: CSU*

ART 60A-Z -- 1-3 Units Topics in Art

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 Art not covered in detail in the general Art 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 Art Gallery Practices

Prerequisite: Art 4A or GRD 20A or Photo 1B

Class Hours: 1 lecture

Art 60A offers the student an introduction to gallery practices relating to exhibition selection, design, budgeting and installation techniques.

60C/D/E -- 1/2/3 Units Printmaking Studio Practices

Prerequisite: Art 15A or 15B or 15C or 15D or equivalent

Class Hours: 3/6/9 laboratory

An in-depth exploration of intaglio, relief, pantographs or experimental techniques, geared to the individual student's needs. Work will be done under instructor's supervision.

60F -- 3 Units Glaze Chemistry

Prerequisite: A previous course in ceramics

Class Hours: 2 lecture, 3 laboratory

This course is an introduction into glaze formulations and ceramic technology, including clays, kilns, firing, and continuation of wheel form, technique and design. May be taken four (4) times for credit.

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

Full-Time	Part-Time	Counselors
Balazs Becht	Hai Jandorf Philip Klutch Dennis Leartart Carolyn Mallory Ronald Wallingford	José de la Peña Mary Martin

■ 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:

	Units
Astron 1* An Introduction to Astronomy	3
Astron 10* Observational Astronomy	2
Chem 1A General Chemistry I	6
Chem 1B General Chemistry II	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
Math 35 Applied Differential Equations	3
Ph 20A/20AL . Mechanics of Solids and Fluids/Lab	4
Ph 20B/20BL . Electricity and Magnetism/Lab	4
Ph 20C/20CL . Wave Motion, Heat, Optics and Modern Physics/Lab	4

Total minimum units required in major area -- 47

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

Suggested Course Sequence:

First Semester		Third Semester	
Chem 1A	6	Astron 1	3
Math 25A	5	Math 25C	5
	11	Ph 20B/20BL	4
			12
Second Semester		Fourth Semester	
Chem 1B	6	Astron 10	2
Math 25B	5	Math 35	3
Ph 20A/20AL	4	Ph 20C/20CL	4
	15		9

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, position 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 Director. 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.*

Public Programs

The Community Service office at Moorpark College arranges for public programs in astronomy. These monthly programs are held at Moorpark College in the Charles Temple Observatory and the adjacent 150-seat Richard Carlsberg Amphitheater. For information call (805) 378-1408.

Astronomy Hotline

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

Behavioral Science

Faculty

Counselors
Gail Goodman
Mike Johnson
Ofelia Romero-Motlagh

■ 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 emphasizing Anthropology, Psychology or Sociology. Transfer students should consult the transfer requirements section as additional courses are required by transfer institutions.

AREA A: Required Courses:	Units
Anth 2..... Cultural Anthropology.....	3
Psych 1A..... Intro to Psychology.....	3
Soc 1..... Intro to Sociology.....	3

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: 18, 19.

Total minimum units required in major area -- 18

See Degree Requirements and Transfer Information section for General Education 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	Food and Drug Agency Trainee
Public Health Biologist	Genetic Engineering Technician
Cytologist	Waste Management Technician
Clinical Lab Technologist	Laboratory Technician
Museum Curator	Research Assistant
Health Technician	Plant Ecologist
Science Librarian	Physical Therapist
Ecologist	Food Processing Technician
Athletic Trainer	

Faculty

Full-Time	Part-Time	Counselors
David Bishop	Harold Delisle	Frank Bianchino
Thomas McAdam	Gerald Lashik	Edna Ingram
Larry Miller	Karen Moore	
Gary Ogden	Alan Schaub	
Jack Reynolds	Arthur Schechter	
Eric Shargo	Kent Taylor	
	Cynthia Vodraska	

Transfer Information

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:

Cellular and Molecular - Environmental - General Biology - Microbiology.

See counselor regarding B.A. or B. S. requirements.

University of California, Santa Barbara: Biol 2A, 2B; Chem 1A, 1B, 8, 9; Math 16A, 16B or 25A, 25B, 15 or 25C; Ph 10A/10AL, 10B/10BL, or Ph 20A/20AL, 20B/20BL, 20C/20CL. Students must complete all sequences prior to transferring to UCSB.

For transfer information regarding Pre dental, Pre medical, Pre nursing and Pre veterinary see Health Science section of catalog.

■ 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.

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

Required Courses:

	Units
Biol 2AB General Biology I/II	8
Chem 1AB General Chemistry I/II	12
Math 16AB Applied Calculus I/II	6
Ph 10A/10AL . General Physics I/Lab	4
Ph 10B/10BL . General Physics II/Lab	4
Total minimum units required in major area -- 34	

Suggested Course Sequence:

First Semester	Third Semester
Chem 1A	Biol 2A
6	4
6	Math 16A
	3
	Ph 10A/10AL
	4
	11
Second Semester	Fourth Semester
Chem 1B	Biol 2B
6	4
6	Math 16B
	3
	Ph 10B/10BL
	4
	11

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

■ Biology

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 Biology. These requirements were chosen by faculty to optimize students' preparation for upper-division course work for Bachelor of Science 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 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 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.

Physics -- one year high school physics or Ph 10A or equivalent.

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

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	4
Ph 20B/20BL . Electricity and Magnetism/Lab	4
Total minimum units required in major area -- 38	
Recommended Courses: Chem 8, 9; Ph 20C/20CL	

Suggested Course Sequence:

First Semester		Third Semester	
Chem 1A	6	Biol 2A	4
	6	Math 25B	5
		Ph 20A/20AL	4
			13
Second Semester		Fourth Semester	
Chem 1B	6	Biol 2B	4
Math 25A	5	Ph 20B/20BL	4
	11		8

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*

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 Director. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. *Transfer credit: CSU*

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 cat is required; 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

BIOL 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*

BIOL 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; bio-energetics, classical and molecular genetics, plant and animal development, and an introduction to evolution. *Transfer credit: CSU; UC. CAN: BIOL 2, CAN: BIOL SEQ A (Biol 2A & 2B)*

BIOL 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*

BIOL 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*

BIOL 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*

BIOL 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, Chumash culture, Channel Islands. Human impact on the environment, and basic geological concepts are covered. Field trips will be required. *Transfer credit: CSU*

BIOL 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*

BIOL 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, politi-

cal 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*

BIOL 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 Director. 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 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*

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 Director. 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

MICRO 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, 6 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*

MICRO 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 Director. 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: NtS 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 NtS 1 or NtS 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 Director. 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 Director. 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

The major in Business Administration is designed to prepare students for a wide range of careers in the world of business. The areas of specialization available include accounting, (which may include "computer information systems") finance, investments, real estate, marketing, office administration, management, production, operations management, operations research, and statistics. Computer information systems may be a separate option in the Business Administration major. See Computer Information Systems and Computer Science.

Career Opportunities

Associate Degree Level	
Accounting	Accounts Payable Clerk
Bookkeeping	
Payroll Clerk	
Management	
Administrative Assistant	Assistant Manager
Marketing	
Sales Representative	Sales Trainee
Market Research Assistant	Buyer Trainee/Assistant
Manufacturers Representative	
Bachelors Degree Level	
Accounting (B.A./B.S. level)	
Cost Accountant	Tax Specialist/Accountant
Assistant Controller	City or County Auditor
Controller	Revenue Agent
Treasurer	Bank Examiner
Government Accountant	Credit Counselor
Budget Analyst	Estimator
Credit Analyst	Investment Planner
Appraiser	
Management (B.A./B.S. level)	
Administrative Assistant	Management Trainee
Office Manager	Supervisor
Administrative Specialist	Area Manager
Human Resource Manager	Store Manager
Small Business Owner	Branch Manager
Small Business Manager	Personnel Assistant
Marketing (B.A./B.S. level)	
Product Planner	Market Specialist
Advertising Assistant	Promotion Manager
Account Executive	Sales Executive
Manufacturers Representative	Sales Management
Communications Consultant	Sales Campaign Planner
Advertising Manager	Sales Representative
Merchandising Manager	Advertiser
Package Designer	Retail Merchandiser
Consumer Research Analyst	Product Specialist
Industrial Marketing Manager	Media Analyst
Customer Relations Manager	

Faculty

Full-Time	
Barbara Croteau	Counselors
Gerald Fecht	Gail Goodman
Janice Feingold	Lisa Raufman
Thomas Spraggins	
James Wyman	
Kathleen Young	

Part-Time

N. Dina Adler	John Joly
Ronald Boots	Thomas LaMantia
John Bruton	Clinton Lininger
Melvin England	Brian McGilvray
Sharon Forkner-Rippon	Carl Olson
William Furrell	Humberto Sanchez
Rollyn Habeck	Frances Sheppard
John Handlos	Timothy Weaver
Richard Hoffing	Jeffrey Wofford
Paula Hoffman	

Transfer Information

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, Northridge: Bus 2A, 2B, 2C, 33; Econ 1, 2; Math 16A (Accounting and MIS majors must take Math 16A or 25A). Computer competency.

California State University, Sacramento: Bus 2A, 2B, 2C, 33; CIS 1; Econ 1, 2; Math 15, 16A.

University of California: Berkeley: Bus 2A, 2B, 2C; 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).

See counselor for additional requirements.

University of California, Santa Barbara: Economics/Business major: Bus 2A, 2B; Econ 1, 2; Math 25A, 25B.

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 multi-disciplinary 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:

	Units
Bus 2A..... Financial Accounting Principles I	3
Bus 2B..... Financial Accounting Principles II	3
Bus 30..... Intro to Business and Economics	3
Bus 31..... Introduction to Management	3
Bus 33..... Business Law	3
or	
Bus 34..... Legal Environment of Business	3
Bus 39..... Business Communications	3
CIS 1..... Intro to Information Systems	3
CIS 1L..... CIS Introduction Lab	1

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:

Bus 32..... Small Business Management	3
Bus 51..... Human Resources Management	3
Bus 54..... Organizational Management	3

Sales & Marketing Option

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

Bus 35	Sales Techniques	3
Bus 36	Retail Merchandising	3
Bus 37	Marketing	3
Bus 38	Advertising	3

Accounting Option

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

BIS 6	10-Key Mastery on the Computer	1
Bus 1	Preparation for Accounting	3
Bus 8	Computerized Accounting	2
Bus 9A	Spreadsheets in Financial Accounting	2
Bus 9B	Spreadsheets in Managerial Accounting	1
Total minimum units required in major area -- 28 - 31		

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

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:	Units	
BIS 1	Beginning Typewriting/Keyboarding I	1
BIS 6	10-Key Mastery on the Computer	1
BIS 10A	Intro to the PC and DOS	1
Bus 2A	Financial Accounting Principles I	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 39	Business Communications	3
CIS 1	Intro to Information Systems	3
CIS 1L	CIS Introduction Lab	1
Total minimum units required -- 23		

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 book-keeping 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 Principles I

Prerequisites: Bus 1 or equivalent and Math 9 or equivalent, or equivalent skills which may be measured by the college assessment process

Class Hours: 3 lecture

Basic principles of financial accounting are studied as a foundation for advanced study and as a vocational skill. Areas of emphasis in the course are the accounting cycle, internal control, merchandising operations, special-purpose journals, classified financial statements, short-term liquid assets, inventories, and current liabilities. *Transfer credit: CSU; UC*

BUS 2B -- 3 Units

Financial Accounting Principles II

Prerequisite: Bus 2A

Class Hours: 3 lecture

This course continues the study of basic financial accounting principles as a foundation for advanced study and as a vocational skill. Areas of emphasis include acquisition, depreciation, and disposal of long-term assets, natural resources and intangible assets, partnerships, corporations, long-term liabilities, statement of cash flows, financial statement analysis, intercompany investments, and international and inflation accounting. *Transfer credit: CSU; UC*

BUS 2C -- 3 Units

Managerial Accounting Concepts

Prerequisites: Bus 2B and Math 3 or equivalent

Class Hours: 3 lecture

This course completes the study of basic accounting by focusing on cost accounting and accounting quantitative data and its use by management in internal decisions relating to products, prices, cost control, budgeting, etc. It is intended as a foundation for advanced study and deals primarily with manufacturing entities. *Transfer credit: CSU; UC*

BUS 7 -- 3 Units

Income Tax Law

Class Hours: 3 lecture

This course is designed to help students to 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*

BUS 8 -- 2 Units

Computerized Accounting

Prerequisites: Bus 2A, BIS 10A

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

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 present value calculations are also included. *Transfer credit: CSU*

BUS 9B -- 1 Unit

Spreadsheets in Managerial Accounting

Prerequisites: Bus 2C or concurrent enrollment, Bus 9A

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 Director. 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

Class Hours: 3 lecture

This course presents basic concepts and functions of business and economics and the application of economic thinking to the operation and evolution of business. It also explores business organization and finance, demand and supply, money and banking, business decision making, and inflation. Emphasis is placed on the practical use of

business and economic understanding. (co-numbered Econ 30)
Transfer credit: CSU

BUS 31 -- 3 Units
Introduction to Management

Prerequisite: Bus 30
Class Hours: 3 lecture

Instruction focuses upon the manager's responsibility for planning, organizing, directing, controlling and coordinating, including basic functions of an organization and responsibility for carrying out objectives in accordance with the organization's plan. *Transfer credit: CSU*

BUS 32 -- 3 Units
Small Business Management

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

Class Hours: 3 lecture

This course deals with the fundamental principles of law pertaining to business transactions, including origins of the legal systems and present-day court systems and procedures. Topics covered include law of contracts, sales, real and personal property, bailments and consumer protection. *Transfer credit: CSU; UC*

BUS 34 -- 3 Units
Legal Environment of Business

Class Hours: 3 lecture

This course is a study of the basic legal framework applicable to business institutions and their operation. It includes sources of law, judicial and administrative systems, agencies for enforcement, and social, ethical and international influences. *Transfer credit: CSU; UC pending*

BUS 35 -- 3 Units
Sales Techniques

Prerequisite: Bus 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

Prerequisite: Bus 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

Prerequisite: Bus 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

Prerequisite: Bus 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 Communications

Class Hours: 3 lecture

This practical course helps students develop communication skills through business correspondence. It provides training in writing various types of letters commonly used in business such as inquiries, sales, collections, credit, customer relations, and employment appropriation techniques; reviews communication theory, human relations motivational effects of correspondence; develops further skills in listening and speaking. *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 50 -- 3 Units
Elements of Supervision

Class Hours: 3 lecture

This course covers the responsibilities of a supervisor. Topics covered are organization, duties and responsibilities, human relations, grievances, training, rating, and promotion. *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 Management

Prerequisite: Bus 30

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	Data Entry Clerk
Word Processor	Receptionist
Office Clerk	Data Entry Operator
Administrative Aide	

Faculty

Full-Time	Part-Time	Counselor
Shay Collier	Stephen Abrams	Lisa Raufman
Louis Wolff	Bruce Bassin	
Kathleen Young	Linda Benjamin	
	Henry Bouma	
	Guy Campbell	
	Joan Cantrell	
	Marjorie Corbell	
	Maria Ellis	
	Carole Eustice	
	Donna Goris	
	Timothy Hedrick	
	Cathy Kent	
	Mar Jean Lewis	
	Delores Moon	
	Christopher Vender	
	Howard Woodward	

Microcomputer Applications

Certificate of Achievement

This program offers basic and advanced training in a variety of widely-used computer application 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:	Units
BIS 2..... Beginning Typewriting/Keyboarding II	1
BIS 10A Intro to the PC and DOS	1
BIS 19..... Introduction to Windows	1
Bus 39 Business Communications	3
Required Additional Courses:	
Select one (1) Word Processing A/B combination:	
BIS 15A/B WordPerfect I/II	1/1
BIS 20A/B Begin/Advanced WordPerfect for Windows	1/1
BIS 21A/B Word for Windows I/II	1/1
Select six (6) units from the following courses:	
BIS 10B Advanced DOS Functions	2
BIS 10C Hard Disk Management (DOS).....	0.5
BIS 13A/B Lotus 1-2-3 I/II	1/1
BIS 14A/B Intro to Database IV/Programming dBASE IV.....	1/2
BIS 15A/B/C .. WordPerfect I/II/III	1/1/1
BIS 20A/B Begin/Advanced WordPerfect for Windows	1/1
BIS 21A/B Word for Windows I/II	1/1
BIS 24A/B Excel for Windows I/II	1/1
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

Beginning Typewriting/Keyboarding I

Class Hours: 6 laboratory for 8 weeks

This course is for the student who has never had a typing course, or who prefers to start at the very beginning. Instruction includes mastery of the alphabetic/numeric keyboard, fundamental operation of the typewriter, building typing speed and accuracy.

BIS 2 -- 1 Unit

Beginning Typewriting/Keyboarding II

Prerequisites: BIS 1 or equivalent; ability to type 20 wpm

Class Hours: 6 laboratory for 8 weeks

This course is for the student who has a basic knowledge of the alphabetic keys. Instruction includes centering, figure and symbol key reaches, as well as speed building and accuracy development.

BIS 3 -- 1 Unit

Typewriting: Speed Building

Prerequisites: Knowledge of the keyboard; ability to type 35 wpm

Class Hours: 6 laboratory for 8 weeks

This course is designed for the student who has the ability to type at least 35 wpm accurately and the desire to work on speed and accuracy. The course consists of a series of timings and drills designed to build speed and improve accuracy. May be taken two (2) times for credit.

BIS 4 -- 1 Unit

Beginning Typewriting/Keyboarding III★

Prerequisites: BIS 2 or equivalent; ability to type 30 wpm

Class Hours: 6 laboratory for 8 weeks

This course is for the student who has knowledge of basic letter format and tables. Instruction includes memorandums, proofreader marks, reports, business correspondence and tables.

BIS 6 -- 1 Unit

10-Key Mastery on the Computer

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 book-keeping/accounting environment.

BIS 10A -- 1 Unit

Introduction to the PC and DOS

Class Hours: 8 lecture, 24 laboratory total

This course is an introduction to the IBM Personal Computer hardware and operating system. Covered will be hardware components, power-up sequence, insertion and removal of diskettes, use of operating system commands, use of common system utilities, and the loading of prepackaged applications. May be taken three (3) times for credit.

BIS 10B -- 2 Units

Advanced DOS Functions

Prerequisite: BIS 10A

Class Hours: 16 lecture, 48 laboratory total

This course is an in-depth study of the advanced features of MS-DOS. This course adds to the essential basics of BIS 10A and explores the inner workings of DOS. The course includes expanded exposure to subdirectories, file management, and backup and recovery techniques and explores DOS version differences. May be taken three (3) times for credit.

BIS 10C -- .5 Unit

Hard Disk Management (DOS)★

Prerequisite: BIS 10A

Class Hours: 1 lecture for 8 weeks

Learn how hierarchical directories are created and structured and how to share data between programs. Learn how to optimize disk operating speed and use hard disk management software. May be taken three (3) times for credit.

BIS 13A -- 1 Unit**Lotus 1-2-3 I**

Prerequisite: BIS 10A

Class Hours: 8 lecture, 24 laboratory total

Introduction to the spreadsheet aspect of this program will be studied. The course is appropriate for the non-major student. Course is taught on IBM or compatible computers. May be taken three (3) times for credit.

BIS 13B -- 1 Unit**Lotus 1-2-3 II**

Prerequisite: BIS 13A

Class Hours: 8 lecture, 24 laboratory total

This is a continuation of Lotus 1-2-3 I covering graph creation and database operations. Course is taught on IBM or compatible computers. May be taken three (3) times for credit.

BIS 14A -- 1 Unit**Introduction to Database IV**

Prerequisite: BIS 10A

Class Hours: 8 lecture, 24 laboratory total

This course is an introduction to the microcomputer database application program dBASE IV. It will consist of an introductory lecture, intensive computer assisted instruction, practice lessons, practical use of the processor to generate a formal database and preparation of reports. May be taken three (3) times for credit.

BIS 14B -- 2 Units**Programming dBASE IV**

Prerequisite: BIS 14A

Class Hours: 16 lecture, 48 laboratory total

This advanced course is for those who need more elaborate data manipulation, calculations, logical operations than can be accomplished by making requests via query language. Includes error detection, menu driven programs, formatting screens, using subroutines, dBASE IV advanced features. May be taken three (3) times for credit.

BIS 15A -- 1 Unit**WordPerfect I**

Prerequisites: BIS 10A or concurrent enrollment and knowledge of the keyboard

Class Hours: 1 lecture, 3 laboratory for 8 weeks

This is an introduction to a widely-used word processing program. The course covers document creation, text enhancement, Speller, and Thesaurus, creating and formatting tables. May be taken three (3) times for credit.

BIS 15B -- 1 Unit**WordPerfect II**

Prerequisite: BIS 15A or equivalent

Class Hours: 1 lecture, 3 laboratory for 8 weeks

This is a continuation of BIS 15A, including cutting and pasting text, working with multiple windows, Grammatik, and changing fonts. May be taken three (3) times for credit.

BIS 15C -- 1 Unit**WordPerfect III**

Prerequisite: BIS 15B or equivalent

Class Hours: 1 lecture, 3 laboratory for 8 weeks

Student will learn in-depth powerful features of WordPerfect such as macros, merge, and styles. May be taken three (3) times for credit.

BIS 19 -- 1 Unit**Introduction to Windows★**

Prerequisites: BIS 10A or concurrent enrollment and knowledge of the keyboard

Class Hours: 1 lecture, 3 laboratory for 8 weeks

Windows is a software program that allows the user to run programs, enter and move data around, and perform DOS-related tasks simply by using the mouse to point at objects on the screen. Topics covered include program and files management, using Write and Paintbrush, and customizing Windows. May be taken three (3) times for credit.

BIS 20A -- 1 Unit**Beginning WordPerfect for Windows**

Prerequisites: BIS 19 or concurrent enrollment and knowledge of the keyboard

Class Hours: 1 lecture, 3 laboratory for 8 weeks

This WordPerfect version takes place in a graphical, multi-tasking environment and incorporates all of its popular features using a mouse in conjunction with button bars and dialog boxes. Basic document formatting will be included. May be taken three (3) times for credit.

BIS 20B -- 1 Unit**Advanced WordPerfect for Windows**

Prerequisite: BIS 20A

Class Hours: 1 lecture, 3 laboratory for 8 weeks

Advanced features in the Windows environment including tables and equations, merging, macros, columns, styles, headers and footers will be covered. May be taken three (3) times for credit.

BIS 21A -- 1 Unit**Word for Windows I**

Prerequisites: BIS 19 or concurrent enrollment and knowledge of the keyboard

Class Hours: 1 lecture, 3 laboratory for 8 weeks

This is an introduction to a widely-used word processing program for Windows. The course covers document creation, text enhancement, editing, windows, Speller and Thesaurus. May be taken three (3) times for credit.

BIS 21B -- 1 Unit**Word for Windows II**

Prerequisite: BIS 21A or equivalent

Class Hours: 1 lecture, 3 laboratory for 8 weeks

This is a continuation of BIS 21A utilizing point and click, icons, drop-down menus, and dialog boxes. This course covers features such as tables, columns, outlines, and mail merge, and others. May be taken three (3) times for credit.

BIS 22A/B -- 1-3/1-3 Units**Independent Studies in Business Information Systems**

Prerequisite: A previous course 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 Director. 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 Unit**Excel for Windows I**

Prerequisite: BIS 19

Class Hours: 1 lecture, 3 laboratory for 8 weeks

This is an introduction to Excel, an electronic spreadsheet software program for the windows environment, designed to give the student hands-on experience with spreadsheets. Course is taught on IBM/compatible computers. May be taken three (3) times for credit.

BIS 24B -- 1 Unit**Excel for Windows II**

Prerequisite: BIS 24A or equivalent

Class Hours: 1 lecture, 3 laboratory for 8 weeks

This is a continuation of BIS 24A utilizing point and click, icons, drop-down menus, and dialog boxes. This course includes in-depth coverage of macros, databases, and charts. 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	Sanitation
Research Assistant	Research Scientist
Chemical Analyst	Biochemist
Laboratory Technician	Science Writer
Genetic Engineering Technician	Patent Research
Restoration Technician, Museum	Science Abstractor
Food and Drug Agency Trainee	Pharmacy Assistant
Art Restoration Specialist	

Faculty

Full-Time	Part-Time	Counselors
Eugene Berg	Hyla Acheson	Frank Bianchino
Deanna Franke	Dennis Anderson	Mary Martin
Richard Kurtik	Marjorie Leerabhandh	Danita Redd Terry
David Murphy	William Lockman	
	Robert Miller	
	George Ogar	

Transfer Information

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; Math 25A, 25B, 25C, 35; Ph 20A/20AL, 20B/20BL, 20C/20CL. Biochemistry option: Add Biol 2A, 2B.

University of California, Santa Barbara: (B.A.): Chem 1A, 1B, 9; Math 25A, 25B, 25C; Ph 10AB with Labs or Ph 20ABC with Labs. (B.S.): Add Math 31, 35; Ph 20ABC with Labs.

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.

Chemistry 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
Chem 8..... Elementary Organic Chemistry.....	4
Chem 9..... Organic Chemistry Lab	2
Math 16A..... Applied Calculus I.....	3
Math 16B..... Applied Calculus II.....	3
Ph 10A/10AL . General Physics I/Lab	4
Ph 10B/10BL . General Physics II/Lab	4
Total minimum units required in major area -- 32	

Suggested Course Sequence:

First Semester	Third Semester
Chem 1A	Math 16A
6	3
6	Ph 10A/10AL
	4
	7
Second Semester	Fourth Semester
Chem 1B	Chem 8
6	4
6	Chem 9
	2
	Math 16B
	3
	Ph 10B/10BL
	4
	13

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

Chemistry

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 Chemistry. These requirements were chosen by faculty to optimize students' preparation for upper-division course work for Bachelor of Science 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 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 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:

	Units
Chem 1A General Chemistry I	6
Chem 1B General Chemistry II	6
Chem 8..... Elementary Organic Chemistry.....	4
Chem 9..... Organic Chemistry Lab	2
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.....	4
Ph 20B/20BL . Electricity and Magnetism/Lab	4
Ph 20C/20CL . Wave Motion, Heat, Optics and Modern Physics/Lab.....	4

Total minimum units required in major area -- 45

Recommended Course: Math 35

Suggested Course Sequence:

First Semester		Third Semester	
Chem 1A	6	Math 25C	5
Math 25A	5	Ph 20B/20BL	4
	<u>11</u>		<u>9</u>

Second Semester		Fourth Semester	
Chem 1B	6	Chem 8	4
Math 25B	5	Chem 9	2
Ph 20A/20AL	4	Ph 20C/20CL	4
	<u>15</u>		<u>10</u>

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 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; thermochemistry; 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

Prerequisite: Chem 1A and Math 5 or equivalent college course, or equivalent skills which may be measured by the college assessment process

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 pending*

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, carbonyls, amines and pheols. 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 pending*

CHEM 8 -- 4 Units

Elementary Organic Chemistry

Prerequisite: Chem 1B (may be taken concurrently)

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; spectroscopic analysis; biochemistry. *Transfer credit: CSU; UC*

CHEM 9 -- 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*

CHEM 12 -- 5 Units

Introductory Chemistry I

Prerequisite: Math 1 or equivalent college course, or eligibility for Math 3 or higher

Class Hours: 4 lecture, 3 laboratory

This course fulfills the needs of non-chemistry majors as well as those who need additional review of chemistry. It emphasizes basic principles of inorganic chemistry with reference to measurement, chemical nature of matter and energy, atomic theory, elements and compounds, periodic table, bonding, molecular structure, nomenclature; chemical reactions, equations, and calculations. Course fulfills prerequisite requirements for Chem 1A and Chem 13. *Transfer credit: CSU; UC credit limitations -- no credit at UC if taken after Chem 1A*

CHEM 13 -- 5 Units

Introductory Chemistry II

Prerequisite: Chem 12 or one year of high school chemistry

Class Hours: 4 lecture, 3 laboratory

This is an introduction to the fundamental concepts of organic and biochemistry including structure, nomenclature and reactions; metabolism of carbohydrates, lipids, proteins, and nucleic acids; kinetics, equilibria, electrochemistry; with applications to agriculture, earth science, nutrition, and health sciences. *Transfer credit: CSU; UC credit limitations -- no credit at UC if taken after Chem 8, 9*

CHEM 22A/B -- .5-3/5-3 Units

Independent Studies in Chemistry

Prerequisite: A previous course in Chemistry

Class Hours: .5-3 tutorial

This course is for students who are interested in furthering their knowledge of chemistry on an independent study basis. The project selected must be approved by an instructor in the discipline and the Division Director. 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.*

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	Social Worker
Foreign Office	Travel Guide
Foreign Correspondent	Translator
News Analyst	Company Representative
Writer	Advertising
Import-Export Trade	Community Development

Faculty

Full-Time	Counselor
Tomás Sanchez	Ofelia Romero-Motlagh

Transfer Information

Successful completion of the Chicano Studies program prepares students for work in the Barrio, education, politics, social services, and various other positions in government service and private industry.

Major requirements for upper-division standing at:
California State University, Northridge: Ch St 2 (or Anth 4).
University of California, Davis: Soc 3; Spn 1, 2.
University of California, Santa Barbara: Ch St 1, 2, 4; Spn 4.

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 Sc 8) *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 Director. 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	Camp Counselor
Teacher's Aide	Children's Book Author
Parent Educator	Children's Television Producer
Residential Care Worker	Children's Toy Designer
Preschool Director	Children's Toy Marketer

Faculty

Full-Time	Part-Time	Counselors
Linda Cravens	Rosalie Bergman	Rick Cardoni
	Dianne Cohn	José de la Peña
	Mariann Harmon	
	Bonnie Hault	
	Carol Howell	
	Jennifer Lynch	
	Kathleen Reiter	
	Christabel Schadt	
	Dianne Smith	
	Maria Smith-Green	

Transfer Information

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.
 California State University, Sacramento: Biol 1 or 2A; CD 30.
 See also the Liberal Studies transfer major.

Child Development

Occupational

Associate in Science Degree

This program offers comprehensive training of teachers and aides for work with young children in Early Childhood settings. Career opportunities for both full and part-time work are increasing and are available to both men and women.

Required Courses:	Units
CD 30..... Human Development.....	3
CD 38..... Practicum I - Observation in Early Childhood.....	3
CD 39A..... Practicum II - Supervised Participation in Early Childhood.....	3
CD 39B..... Practicum III - Supervised Field Experience in Early Childhood.....	3
CD 40..... Child, Family and Community.....	3
CD 41..... Early Childhood Programs.....	3
CD 43..... Parent and Teacher Communications and Conferencing.....	3
HE 5..... Safety and First Aid.....	3
Required Additional Courses:	
Select six (6) units from the following courses:	
CD 51..... Music in Early Childhood.....	3
CD 52..... Art in Early Childhood.....	3

CD 53..... Science in Early Childhood.....	3
CD 54..... Literature in Early Childhood.....	3
Select one (1) of the following courses:	
Psych 1A..... Intro to Psychology.....	3
Psych 3..... Psychology of Interpersonal Relationships.....	3
Total minimum units required in major area -- 33	

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

Early Childhood Education

Certificate of Achievement

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

Required Courses:	Units
CD 30..... Human Development.....	3
CD 38..... Practicum I - Observation in Early Childhood.....	3
CD 39A..... Practicum II - Supervised Participation in Early Childhood.....	3
CD 39B..... Practicum III - Supervised Field Experience in Early Childhood.....	3
CD 40..... Child, Family and Community.....	3
CD 41..... Early Childhood Programs.....	3
CD 43..... Parent and Teacher Communications and Conferencing.....	3
General Education Courses*.....	6
Required Additional Courses:	
Select one (1) of the following courses:	
Psych 1A..... Intro to Psychology.....	3
Psych 3..... Psychology of Interpersonal Relationships.....	3
Total minimum units required -- 30	

*Courses are to be selected from those that meet the General Education requirements for the Associate Degree.

School Age Child Care

Certificate of Completion

Primary Employability Skills to be Developed:

Students completing this certificate will obtain the necessary skills required to work successfully in programs held in before-and-after school centers.

Required Courses:	Units
CD 30..... Human Development.....	3
CD 40..... Child, Family and Community.....	3
CD 45..... Programs for the School Age Child.....	3
HE 5..... Safety and First Aid.....	3
Psych 3..... Psychology of Interpersonal Relationships.....	3
Total minimum units required -- 15	

Child Development Courses

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 Director. 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 (DS1) (F/S)

Class Hours: 3 lecture

This course is a chronological survey of human development from prenatal to adolescence. Cognitive, social, physical and emotional

development is investigated. Application of research and principles of growth to resolution of developmental tasks at each age level is studied. *Transfer credit: CSU; UC maximum credit allowed -- one course if combined with Psych 7*

CD 31 -- 3 Units

Infant Studies (DS4) (S)

Class Hours: 3 lecture

This course covers the requirements for infant-toddler care based on developmental needs of the child. Planning curriculum, designing an environment and observation of existing programs are included.

CD 38 -- 3 Units

Practicum I - Observation in Early Childhood (F/S)

Class Hours: 2 lecture, 3 laboratory

This course is an introduction to observation techniques in a pre-school setting. Students will observe children's activities, classroom materials and environment and teacher planning and interaction within the Child Development Center. Extended experiences are gained in community observation at other Early Childhood Programs. *Transfer credit: CSU*

CD 39A -- 3 Units

Practicum II - Supervised Participation in Early Childhood (F/S)

Prerequisites: CD 30 and CD 38 previous or concurrent; verification of annual tuberculin test required

Class Hours: 2 lecture, 3 laboratory

This course provides training in Early Childhood procedures and practices for students who will be teaching young children and for those who are presently employed in preschools, Head Start Centers, and day-care facilities. Students will gain practical experience while actually working with the young children in the Child Development Center. *Transfer credit: CSU*

CD 39B -- 3 Units

Practicum III - Supervised Field Experience in Early Childhood (S)

Prerequisites: CD 39A; verification of annual tuberculin test required

Class Hours: 2 lecture, 3 laboratory

Students are given extended training in observation-participation and planning of the Early Childhood experiences in community pre-school settings; i.e., child care facility, private and church programs, Head Start and special education. *Transfer credit: CSU*

CD 40 -- 3 Units

Child, Family and Community (DS2) (F/S)

Class Hours: 3 lecture

Students in this course study the patterns of child-rearing in contemporary society, as well as interaction of family and community; significance of personal and social values in family life and community; individual and social resources for family health and welfare and improving child development. *Transfer credit: CSU*

CD 41 -- 3 Units

Early Childhood Programs (DS3) (F/S)

Class Hours: 3 lecture

This course provides a survey of philosophies and programs in the field of Early Childhood, as well as experience in planning a curriculum for a program. Special emphasis is provided for selection and arrangement of equipment and materials to furnish a rich environment for the mental and physical growth of preschool children. *Transfer credit: CSU*

CD 42 -- 3 Units

Administration of Early Childhood Programs (DS6) (F)

Prerequisite: None. CD 40 and CD 41 recommended

Class Hours: 3 lecture

Class content covers the origin of the preschool movement in California, types of preschools, licensing requirements, legislation standards, daily routines, teacher responsibility, and public relations. This course will also include principles and practices of communication skills for the teacher and administrator with other staff members in the preschool and between the school and the home. *Transfer credit: CSU*

CD 43 -- 3 Units

Parent and Teacher Communications and Conferencing (S)

Class Hours: 3 lecture

The course is intended to increase knowledge and effectiveness in parent-teacher conferencing with an emphasis on techniques that facilitate skillful communication. Understanding of parental and teacher

goals and of expectations in relationship to the young child is also emphasized.

CD 44 -- 3 Units

Parent-Child Relationships (F)

Class Hours: 3 lecture

The course is designed to provide present and future parents with the skills necessary to foster successful parent-child interaction. There will be a focus on verbal and non-verbal communication. Learning concepts, materials and discussion of the parents' role as the child's most significant "teacher" will be included in course experience. May be taken two (2) times for credit.

CD 45 -- 3 Units

Programs for the School Age Child (DS5) (F)

Class Hours: 3 lecture

This course introduces the student to the care of school age children. It is designed for those planning to work in before-and-after school programs with the school age child. It will help the student develop an appropriate curriculum to meet the developmental and emotional needs of this age child. It will also provide the student with information about support for the family and how to make use of community resources.

CD 51 -- 3 Units

Music in Early Childhood (S)

Class Hours: 3 lecture

This course is designed to help teachers in understanding the growth and development of children in relation to music at home and at school. This course can also help teachers of young children to gain skill in conducting a music program for Early Childhood. In particular, emphasis will be placed on skill, construction and playing of simple musical instruments, creative rhythm, singing, and composing songs. *Transfer credit: CSU*

CD 52 -- 3 Units

Art in Early Childhood (F/S)

Class Hours: 3 lecture

This course is designed to provide opportunities for teachers to learn how to help their children in the field of art; also to provide assistance to teachers in understanding the growth and development of children's creative experience both at home and at school. Teachers also learn to develop practical materials in the creative arts and how to understand the individual child relative to his own creative expression. *Transfer credit: CSU*

CD 53 -- 3 Units

Science in Early Childhood (F)

Class Hours: 3 lecture

This course provides opportunities for parents to learn how to help their children in the field of science, and to help teachers in understanding the growth and development of children in relation to science and mathematics both at home and at school. Practical materials in a science area are also developed. *Transfer credit: CSU*

CD 54 -- 3 Units

Literature in Early Childhood (S)

Class Hours: 3 lecture

Students explore various experiences appropriate to the development of young children - including picture books, flannel graphs, poetry, puppetry, records, television, and dramatic play. Emphasis is placed on developing language concepts and skills. *Transfer credit: CSU*

CD 60A-Z -- 1-3 Units

Topics in Child Development (F/S)

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 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)

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)

Prerequisite: None. CD 30 recommended

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	Junior Programmer
Information Center Manager	Computer Operator
Information Systems Manager	Programmer Trainee
Data Processing Sales Representative	Tape Librarian
Technical Information Specialist	Systems Analyst
Technical Services Manager	Applications Specialist

A.S. Level in Microcomputer Data Processing

Office Manager	Data Entry Clerk
Word Processor	Receptionist
Office Clerk	Data Entry Operator
Administrative Aide	

Faculty

Full-Time	Part-Time	Counselor
David Kay	Guy Campbell	Lisa Raufman
Louis Wolff	George Kurata	

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:	Units
Bus 2A..... Financial Accounting Principles I	3
Bus 2B..... Financial Accounting Principles II	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 3AL..... CIS Visual BASIC I Lab	1
CIS 4A..... Computer Programming I: COBOL.....	3
CIS 4AL..... CIS COBOL I Lab	1
CIS 4B..... Computer Programming II: COBOL.....	3
CIS 4BL..... CIS COBOL II Lab	1
CIS 6..... Systems Analysis	3

Total minimum units required in major area -- 28

Recommended Courses: CIS 5A, 5B; CS 18/18L; Econ 1, 2

Microcomputer Systems Option

Required Courses:	Units
BIS 10A..... Intro to the PC and DOS.....	1
BIS 10B..... Advanced DOS Functions	2
BIS 13A..... Lotus 1-2-3 I	1
BIS 13B..... Lotus 1-2-3 II	1
BIS 14A..... Intro to Database IV.....	1
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 3AL..... 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:

Bus 2B..... Financial Accounting Principles II	3
Bus 8..... Computerized Accounting.....	2

Select one (1) pair from the following courses:

BIS 15A..... WordPerfect I	1
BIS 15B..... WordPerfect II	1
BIS 20A..... Beginning WordPerfect for Windows.....	1
BIS 20B..... Advanced WordPerfect for Windows.....	1
BIS 21A..... Word for Windows I	1
BIS 21B..... Word for Windows II	1

Total minimum units required in major area -- 30-31

Recommended Courses: Bus 2B; CIS 4A, 5A; Econ 1, 2

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

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

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 pending*

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 pending*

CIS 3B -- 3 Units**Windows Programming: Visual BASIC II (Fall, evening only)**

Prerequisite: CIS 3A

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 pending*

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 pending*

CIS 4A -- 3 Units**Computer Programming I: COBOL (Spring, evening only)**

Prerequisite: CIS 1 (For CIS majors, concurrent enrollment in or prior completion of CIS 2 is recommended.)

Corequisite: CIS 4AL

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: CSCI 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)**

Prerequisite: CIS 4A 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 applica-

tions 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. In addition, the course focuses on features such as system commands and performance, problem handling, program-fix installation and application, backup and recovery, and 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 Director. 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 60A-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.*

Computer Science

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 bachelors or graduate studies)

Computer Programmer	Business Programmer
Applications Engineer, Computer	System Designer
Microprocessing Technologist	Scientific Programmer
Naval Research Logistics	Forms Analyst
Process Control Programmer	Coder
Operational Research Manager	Software Analyst
Computer Service Technician	Software Engineer
Computer Lab Technician	Systems Analyst

Faculty

Full-Time	Part-Time	Counselors
Sheila Tan	Thomas Becker	Edna Ingram
	Donald Cook	Danita Redd Terry
	Larry Lace	
	Takyiu Liu	
	Christine Salazar	

Transfer Information

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.

California State University, Northridge: CS 10/10L, 20/20L, 30, 40, 50, 60; Math 25A, 25B, 25C, 30, 31; one sequence from the following: Biol 2A, 2B; Chem 1A, 1B; Phil 9; Ph 20A/20AL, 20B/20BL.

Important Note: The courses listed above are required of all Computer Science majors at CSUN. Since CSUN offers 11 choices for concentration in Computer Science at the junior level, some of them with additional lower-division requirements, a student who is planning this major should refer to the CSUN catalog for further information and, upon transfer, consult an advisor at CSUN about these concentrations.

University of California, Berkeley: CS 10/10L, 20/20L, 30/30L; Engr 20; Math 25A, 25B, 31.

Computer Science

Associate in Science Degree

Moorpark College offers an Associate in Science Degree in Computer Science. The Computer Science major has a dual purpose: to prepare students for upper-division course work in Computer Science and to provide technical training for a variety of careers in business, industry, and government.

Required Courses:	Units
CS 10/10L..... Intro to Computer Science/Pascal/Lab	4
CS 17A/17AL..... Computer Programming with C/Lab	4
CS 20/20L..... Data Structures and Program Design/Lab.....	4
CS 30/30L..... Assembly Language/Lab	4
CS 40	3
Math 25A..... Calculus with Analytic Geometry I.....	5
Math 25B..... Calculus with Analytic Geometry II.....	5
Math 31	3

Required Additional Courses:

Select two (2) of the following courses:

CS 17B/17BL. Object-Oriented Programming Using C++/Lab.....	4
CS 19/19L..... Software Engineering with Ada/Lab	4
CS 50	3
CS 60/60L..... Concepts of Programming Languages/Lab.....	4
Math 25C..... Calculus with Analytic Geometry III.....	5
Math 35..... Applied Differential Equations.....	3
Phil 9	4
Total minimum units required in major area -- 38-41	

Suggested Course Sequence:

First Semester	Third Semester
CS 10/10L.....	CS 17A/17AL
Math 25A.....	CS 30/30L
9	8
Second Semester	Fourth Semester
CS 20/20L.....	CS 40
Math 25B.....	Math 31
9	6

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/Pascal

Prerequisite: Math 1 or equivalent (This course is intended for students with little or no background in computing.)

Corequisite: Concurrent enrollment in CS 1L required

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 Pascal. *Transfer credit: CSU; UC credit limitations.*

CS 1L -- 1 Unit

Fundamentals of Computers and Programming/Pascal 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

Prerequisites: Familiarity with computer architecture and at least one high-level programming language

Corequisite: Concurrent enrollment in CS 2L required

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**

Prerequisite: 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 10 -- 3 Units**Introduction to Computer Science/Pascal**

Prerequisite: Math 6 or Math 7 or equivalent college course

Corequisite: Concurrent enrollment in CS 10L required

Class Hours: 3 lecture

This course is an introduction to computer programming and the organization of computers using the Pascal language. Basic programming concepts are studied including: algorithms, data and control structures, debugging, program design, documentation, and structured programming. *Transfer credit: CSU; UC credit limitations.*

CS 10L -- 1 Unit**Introduction to Computer Science/Pascal Laboratory★**

Corequisite: Concurrent enrollment in CS 10 required

Class Hours: 3 laboratory

This course provides laboratory experience to accompany CS 10. *Transfer credit: CSU; UC credit limitations.*

CS 17A -- 3 Units**Computer Programming with C**

Prerequisite: CS 10/10L or equivalent college course or proficiency in Pascal

Corequisite: Concurrent enrollment in CS 17AL required

Class Hours: 3 lecture

This course is an in-depth study of the C programming language. Every facet of the C language is covered with emphasis on algorithms and data structures as implemented in C. The course will use C to demonstrate the application of software engineering methodologies. *Transfer credit: CSU; UC credit limitations.*

CS 17AL -- 1 Unit**Computer Programming Laboratory with C★**

Prerequisite: CS 10/10L or equivalent college course or proficiency in Pascal

Corequisite: Concurrent enrollment in CS 17A required

Class Hours: 3 laboratory

This course provides laboratory experience to accompany CS 17A. *Transfer credit: CSU; UC credit limitations.*

CS 17B -- 3 Units**Object-Oriented Programming Using C++**

Prerequisite: CS 17A/17AL or equivalent college course or proficiency in C

Corequisite: Concurrent enrollment in CS 17BL 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 17BL -- 1 Unit**Computer Programming Laboratory with C++★**

Prerequisite: CS 17A/17AL or equivalent college course or proficiency in C

Corequisite: Concurrent enrollment in CS 17B required

Class Hours: 3 laboratory

This course provides laboratory experience to accompany CS 17B. *Transfer credit: CSU; UC credit limitations.*

CS 17C -- 3 Units**Windows Programming in C++**

Prerequisite: CS 17B/17BL or equivalent college course or proficiency in C++

Corequisite: Concurrent enrollment in CS 17CL required

Class Hours: 3 lecture

The main components of a Windows application are studied, including the development environment, messaging model, user interface, graphic device interface, and memory management. *Transfer credit: CSU; UC pending*

CS 17CL -- 1 Unit**Windows Programming in C++ Laboratory★**

Corequisite: Concurrent enrollment in CS 17C required

Class Hours: 3 laboratory

This course provides laboratory experience to accompany CS 17C. *Transfer credit: CSU; UC pending*

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, debugging, program design, documentation, and structured programming. *Transfer credit: CSU; UC credit limitations. CAN: CSCI 4 (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**

Prerequisite: CS 10/10L or equivalent college course

Corequisite: Concurrent enrollment in CS 19L required

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, tasking and parallel programming. *Transfer credit: CSU; UC credit limitations.*

CS 19L -- 1 Unit**Software Engineering Laboratory with Ada★**

Prerequisite: CS 10/10L or equivalent college course

Corequisite: Concurrent enrollment in CS 19 required

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**

Prerequisite: 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 will be 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 Director. 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.*

CS 30 -- 3 Units

Assembly Language

Prerequisite: CS 20/20L or equivalent college course
Corequisite: Concurrent enrollment in CS 30L required
Class Hours: 3 lecture

This course covers basic computer organization; assembly language programming; input-output programming; interrupt handlers.
Transfer credit: CSU; UC credit limitations.

CS 30L -- 1 Unit

Assembly Language Laboratory★

Prerequisite: CS 20/20L or equivalent college course
Corequisite: Concurrent enrollment in CS 30 required
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

Prerequisite: 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, ALU design and function, memory micro programming, I/O handling and interrupts. *Transfer credit: CSU; UC credit limitations.*

CS 50 -- 3 Units

Files and Data Bases

Prerequisite: CS 30/30L
Class Hours: 3 lecture

This is an introduction to large files and data base management. Topics include the following file structures: sequential, indexed sequential, indexed, direct, inverted, tree, and ring. Multi-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

Prerequisite: CS 20/20L or equivalent college course
Corequisite: Concurrent enrollment in CS 60L required
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★

Prerequisite: CS 20/20L or equivalent college course
Corequisite: Concurrent enrollment in CS 60 required
Class Hours: 3 laboratory

This course provides laboratory experience to accompany CS 60.
Transfer credit: CSU; UC credit limitations.

Drafting Technology/CAD

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

Drafter	Construction Trades
Architectural Assistant	Building Plan Reader
Construction Assistant	Civil Engineering Assistant

Faculty

Full-Time	Part-Time	Counselors
Verle Harris	Ralph Arnold	Edna Ingram
Paul Pritchett	Michael Berman	Danita Redd Terry
	Tommie Craft	
	Jamie Crowley	
	Laurence Stanton	
	Joyce Studebaker	
	James Sutton	
	Diane Worstell	

■ Drafting Technology/CAD

Certificate of Completion

Preparation for the Major:

Math 1 or skills which may be measured by an appropriate score on the Math Placement Exam.

Required Courses:	Units
DT 1..... Intro to Drafting	3
DT 2..... Intro to Computer-Aided Drafting	3
DT 3..... Architectural Drafting I	3
DT 4..... Architectural Computer-Aided Drafting	3
DT 11..... Building Codes.....	3

Required Additional Courses:

Select one of the following options:

Architectural Option

This option is for students who are interested in jobs related to the design of buildings and 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 drafter. Students are required to complete the core curriculum plus the following courses:

DT 6..... Building Site Drafting.....	3
DT 9..... Fundamentals 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 -- 24-27	

Drafting Technology/CAD Courses

DT 1 -- 3 Units

Introduction to Drafting

Class Hours: 2 lecture, 3 laboratory

This introduction to drafting and graphic 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 2 -- 3 Units

Introduction to Computer-Aided Drafting

Prerequisites: BIS 1, BIS 10A (both may be taken concurrently) or knowledge of the keyboard, DT 1

Class Hours: 2 lecture, 3 laboratory

This course is an introduction to Auto CAD computer-aided drafting. It includes dimensioning, layering, symbols, blocks, copies, and multiple images. Drawings will be transferred to hard copy on a printer and plotter. *Transfer credit: CSU*

DT 3 -- 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 Computer-Aided Drafting

Prerequisite: DT 2

Class Hours: 2 lecture, 3 laboratory

This course will introduce the students to the development of architectural drawings with the use of computer-aided drafting. *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

Prerequisite: Math 1 or one year of high school algebra

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

Prerequisite: Math 1

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 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 Director. 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

B.S. Level

(Most careers require advanced degrees)

Economist	Securities Analyst
Assessor	Management Trainee
Financial Planner	Economic Development Coordinator
Stock Broker	

Faculty

Full-Time	Part-Time	Counselors
Peter Gucciardo	Rex Edwards	Mike Johnson
Robert Herman	Fred Starner	Ofelia Romero-Motlagh

Transfer Information

Major requirements for upper-division standing at:
California State University, Fresno: Econ 1, 2.
University of California, Davis: Econ 1, 2; Math 15, 25A, 25B, 25C, 31.
University of California, Santa Barbara: Economics/Mathematics major: Bus 2A, 2B; Econ 1, 2; Math 25A, 25B.

Economics Courses

ECON 1 -- 3 Units

Principles of Micro-Economics

Class Hours: 3 lecture

The 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 Director. 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.*

ECON 30 -- 3 Units

Introduction to Business and Economics

Class Hours: 3 lecture

This course presents basic concepts and functions of business and economics and the application of economic thinking to the operation and evolution of business. It also explores business organization and finance, demand and supply, money and banking, business decision making, and inflation. Emphasis is placed on the practical use of business and economic understanding. (co-numbered Bus 30) *Transfer credit: CSU*

ECON 60A-Z -- 1-3 Units

Topics in Economics

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 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 credit limitations.*

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	Bench Technician
Communications Technician	Computer Repair
Electronics Assembly Supervisor	Computer Technician
Electronics Maintenance Technician	Electronics Assembly
Electronics Metrology Technician	Electronics Sales
Electronics Trouble Shooter	Electronics Technician
Field Service Representative	Equipment Technician
Instrumentation Technician	Microwave Technician
Numerical Control Technician	Robotics Technician
Test Equipment Technician	Traveling Technician

B.S. Level

Electronics Instructor	Sales Engineer
Field Engineer	Technical Trainer

Faculty

Full-Time	Part-Time	Counselors
Sergio Monteiro	Leon Rouge	Edna Ingram
	Fernando Vazquez	Danita Redd Terry

■ Electronics Technology

Occupational Associate in Science Degree Certificate of Achievement

The Moorpark College electronics technology program gives a foundation in electronics with an emphasis in communications and microcomputers. The goal of the program is to prepare the student for employment after two years of training. Graduates are provided a foundation in electronics common to many technical fields.

Historically, employment in the communication industry has been quite stable with good opportunities for the well-trained technician in both the private and public sector. Opportunities in the public sector include police, fire, and emergency medical communications. Opportunities in the private sector include radio and TV broadcasting and utility companies (telephone, gas, water and electrical power).

Microcomputers are used in almost every work place, and familiarity with them is often a necessary condition for employment. Microcomputer training is also valuable to the entrepreneurial individual who is willing to start his/her own business as a computer technician, configuring and repairing home PC's.

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.

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 16/16L..... 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
EL 28/28L..... Industrial Electronics/Lab.....	4

Elective Courses:

Select a minimum of one of these:

EL 30..... Broadcast Engineering Certification.....	3
EL 31..... Telephone and Wire Communication Certification	3

Total minimum units required in major area -- 29

Recommended Course: EL 29

Suggested Course Sequence:

First Semester		Third Semester	
EL 10/10L.....	4	EL 21.....	2
EL 16/16L.....	4	EL 28/28L.....	2
	<u>8</u>		<u>4</u>

Second Semester

EL 8.....	1	Fourth Semester	
EL 17/17L.....	4	EL 27.....	2
EL 18.....	1	EL 28/28L.....	4
EL 23.....	2	EL 30 or EL 31	3
	<u>8</u>		<u>9</u>

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 8..... IBM-Clones Hardware for Novices	1
EL 10/10L..... Passive Circuits/Lab.....	4
EL 16/16L..... 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
EL 41.....	Introduction to NetWare	2
EL 42.....	NetWare Service and Support.....	2
EL 45.....	Networking Technologies.....	1
EL 46.....	Network Installation and Troubleshooting.....	1
EL 48.....	NetWare Connect (WAN).....	1
EL 49.....	NetWare Global MHS	1
Total minimum units required in major area -- 34		

Suggested Course Sequence:

First Semester		Third Semester	
BIS 10A.....	1	BIS 10B (1st 8 wks).....	2
EL 10/10L.....	4	EL 21.....	2
EL 16/16L.....	4	EL 24.....	2
	9	EL 41 (2nd 8 wks).....	2
		EL 42 (2nd 8 wks).....	2
			10
Second Semester		Fourth Semester	
BIS 19.....	1	EL 27.....	2
EL 8.....	1	EL 45 (1st 8 wks).....	1
EL 17/17L.....	4	EL 46 (1st 8 wks).....	1
EL 18.....	1	EL 48 (2nd 8 wks).....	1
EL 23.....	2	EL 49 (2nd 8 wks).....	1
	9		6

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 nontechnically-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.

EL 10 -- 3 Units

Passive Circuits

Prerequisite: 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 DC and AC 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, dB, 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

Prerequisite: 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

Students design and build projects compatible with the lecture part of this class. Examples of such projects are digital clock and stopwatch, 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

Corequisite: 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.

EL 20 -- 3 Units

Communication Electronics

Prerequisite: 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. Trouble shooting is emphasized throughout the course.

EL 21 -- 2 Units

Microprocessors and Microcomputers

Prerequisite: 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) line of 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 Director. 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, Trouble Shooting 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 trouble shooting typical electronic equipment. The systematic approach is emphasized and applied to analog and digital circuits. Laboratory experiments reinforce the principles of trouble shooting.

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

electromechanical 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 lecturers. 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, regulations and engineering technology to pass the certification exam in non-radiating technology given by the National Association of Radio and Telecommunications Engineers. This certification is issued to the students who successfully complete the course.

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.

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.

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.

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.

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, applications 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.

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.

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.

Engineering

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	Biomedical Engineer
Chemical Engineer	Industrial Engineer
Civil Engineer	Manufacturing Engineer
Electrical Engineer	Metallurgical Engineer
Water Quality Engineer	Mining Engineer
Nuclear Engineer	Naval Engineer
Environmental Engineer	Petroleum Engineer
Sanitary Engineer	Plastics Engineer
Process Engineer	Astronautical Engineer
Hydraulic Engineer	Structural Engineer
Project Engineer	Traffic Engineer
Geotechnical Engineer	Electronic Systems Engineer
Systems Engineer	Automotive Engineer
Computer Engineer	Robotics Engineer
Stationary Engineer	Artificial Intelligence Engineer
Aerospace Engineer	Military Pilot

Faculty

Full-Time	Part-Time	Counselors
Fred Meyer	Robert Ayer Michael Mitchell	Edna Ingram Danita Redd Terry

Transfer Information

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

Engineering

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 Engineering. These requirements were chosen by faculty to optimize students' preparation for upper-division course work for Bachelor of Science degrees in Engineering offered by four-year institutions. Since the course work in engineering 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 engineering. 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.

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

Required Courses:	Units
Chem 1A General Chemistry I	6
Engr 4..... Engineering and Design/CAD	3
Engr 12..... Engineering Materials.....	3
Engr 16..... Engineering Statics and Strength of Materials.....	4
or	
Engr 20/20L... Electrical Engineering Fundamentals/Lab	4
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.....	4
Ph 20B/20BL . Electricity and Magnetism/Lab	4
Ph 20C/20CL . Wave Motion, Heat, Optics and Modern Physics/Lab.....	4

Total minimum units required in major area -- 43

Recommended courses: Chem 1B; CS 18/18L; Math 35

Suggested Course Sequence:

First Semester	Third Semester
Chem 1A6	Engr 123
Engr 4.....3	Math 25C5
Math 25A5	Ph 20B/20BL.....4
14	12
Second Semester	Fourth Semester
Math 25B5	Engr 16 or
Ph 20A/20AL4	Engr 20/20L.....4
9	Ph 20C/20CL.....4
	8

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
Engr 1A* English Composition (D1).....	3
Engr 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
Spch 1* Introduction to Speech (C2)	3
Total required units in major -- 53-25 (GE) = 28	

*General Education (A1-E1 define general education categories)
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, 2; Journ; Psych 11

We strongly recommend: CA Drivers License P with Hazard Material endorsement and Red Cross approved CPR course.

Suggested Course Sequence:

First Semester	Third Semester
Biol 1 4	Chem 12 5
BIS 10A 1	Env Sc 4 1.5
BIS 15A 1	Geol 1 3
Engl 1A 3	Spch 1 3
Env Sc 1 4	General Education (B1) 3
HE 1 2 15.5
..... 15	
Second Semester	Fourth Semester
EL 1/1L 4	Chem 13 5
Engl 11 3	Env Sc 5 1.5
Env Sc 2 4	Math 15 5
Ph 1 3	General Education (C1) 3
General Education (E2) 1.5	General Education (B2) 3
..... 15.5	Psych 11 recommended
 17.5

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

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, phasers, 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

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 -- .5-3/.5-3 Units
Independent Studies in Engineering**

Prerequisite: A previous course in Engineering
Class Hours: .5-3 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 Director. 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 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

Laser Technician	Electro-Optic Technician
Fiber Optic Technician	Research Technician
Fiber Optic Installer	Electro-Optical Sales Specialist

Faculty

Full-Time	Part-Time	Counselor
Clinton Harper	Hadi Darejeh	Edna Ingram

Associate in Science Degree

See Physics, Electro-Optics Option

Engineering Technology Course

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.

English

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 bachelors degree)

Editor	Manager Trainee
Editor, House Publications	Scenario Writer
Copywriter	Legal Aide
Journalist	Report Writer
Library Reference Worker	Proofreader
Television Writer	Novelist
Technical Writer	Playwright
Publicist	Biographer
Researcher	Story Writer
Copy Editor	Magazine Writer
Program Developer	Poet
Civil Service Positions	Public Relations Worker
Executive Assistant	

Faculty

Full-Time

Barbara Baker
Gillian Dale
John Davie
Richard Edwards
Hugo Ekback
Norman Garber
John Hanft
Anne Kairschner
Diana Lopez
Patricia Ross
Pamela Sheridan
Howard Siegel
Sydney Sims
Michael Strumpf

Part-Time

Dianne Armstrong
Dale Alan Bailes
David Birchman
Joseph Castorino
Jane Chapman
Bobbie Coleman
Jimmy Crawford
Matthew Crow
Deborah Dixon
Shaista Gill
Charles Grogg
Francine Hallcom
Diane Hanshaw
Kate Harper
Melissa Hartman
Thomas Hughes
Ila Jean Kragthorpe
Clive Leeman
Heather McGehee
Thomas Neuburger
Kathleen Patterson
Marlene Pearson
Judith Ramos
Sandra Rayl
James Read
Todd Richardson
Monika Savic
Sheryl Thompson
Ann Warren
Stuart Wilson

Counselors

Mike Johnson
Lisa Raufman

Transfer Information

Career opportunities in English include teaching; journalism; advertising; copywriting; writing for stage, screen, television, and magazines. Studies in English provide preparation for the professions, government service, and politics.

Major requirements for upper-division standing at:
California State University, Northridge: Option I - Literature: Select two courses from Engl 14, 19, 20. (3 units) from: Engl 13A, 13B,

15A, 15B. Option II - Writing: Engl 10A or 10B and 3 units from 14, 19, 20. One course from: Engl 13A, 13B, 15A, 15B. Option III - Contract option: Consult faculty advisor at CSUN.
University of California, Davis: Engl 13A, 13B, 14, 15A, 15B.
University of California, Santa Barbara: Engl 1A, 1B, 15A, 15B, 30; Hist 1A, 1B; select one of the following languages: Fr 1, 2, 3, 4; Ger 1, 2, 3, 4; Spn 1, 2, 3, 4.

Special Note

Equivalent skills which may be measured by the college assessment process is required of all students desiring entrance into English 1A. Otherwise, enrollment in English 2 and completion of the class with a C or better grade is necessary.

English Courses

ENGL 1A -- 3 Units

English Composition

Prerequisite: Equivalent skills which may be measured by the college assessment process or satisfactory completion of Engl 2 or equivalent

Class Hours: 3 lecture

This course in composition emphasizes expository writing which demonstrates principles of rhetorical organization, control of diction, clear sentence construction and command of the mechanics of writing. 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

Introduction to Literature

Prerequisite: Engl 1A with grade of C or better

Class Hours: 3 lecture

This course is a study of imaginative literature complementing the rhetorical emphasis of Engl 1A. The written work will focus on the meaning and style of fiction, drama, and verse, seeking to develop analytical and critical skills and to provide insight into human experience. Students will write a series of essays requiring at least 8000 words of writing outside class. *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 reasoning 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

This course is strongly recommended for students who need a review of basic writing skills. Emphasis will be placed on grammar, spelling, vocabulary building and sentence structure, and the student will be provided with intensive practice in developing ideas, organization, and clarity of statement. Student will be expected to write

regularly. May be taken two (2) times for credit. (College credit only. Does not apply toward a degree.)

ENGL 4A/B/C -- 3/3/3 Units

English as a Second Language

Prerequisite: Beginning skills in English (speaking, reading, writing) for 4A, 4A for 4B, 4B for 4C

Class Hours: 2 lecture, 3 laboratory

This course identifies needs in speech, writing, reading, vocabulary, spelling of students for whom English is not their principal language and strengthens these areas so the student will be capable of communicating well in English. Some emphasis will also be placed on American customs. *Transfer credit: CSU; UC maximum credit allowed -- 8 units.*

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 6 -- 3 Units

Composition for Nonnative Speakers of English

Prerequisite: Engl 4C or equivalent skills which may be measured by the college assessment process

Class Hours: 2 lecture, 3 laboratory

Recommended for the student of English as a Second Language, this course provides practice in writing and correct usage and in the analysis of short cross-cultural reading selections. Emphasis will be on writing idiomatic English, and on the developing and organizing of ideas. Students will be expected to write and revise on a weekly basis. *Transfer credit: CSU; UC*

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*

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, memoranda, 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

Prerequisite: Engl 1A or equivalent

Class Hours: 3 lecture

This course focuses on selected works by major British writers in their historical and cultural contexts, from Blake to the present. *Transfer credit: CSU; UC. CAN: ENGL 10*

ENGL 17 -- 3 Units

Shakespeare

Prerequisite: Engl 1A or equivalent

Class Hours: 3 lecture

This is a survey of twelve plays, including romantic comedies, chronicles, tragedies, "dark" comedies, and romances. Class work will also include lectures, critical papers, and discussions. *Transfer credit: CSU; UC*

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 Director. 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, Moliere, 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 two (2) times for credit. *Transfer credit: CSU; UC*

ENGL 47 -- 3 Units Magazine Editing

Prerequisites: Journ 1, Journ 2 or equivalent

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 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 medieval 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	Part-Time	Counselors
Muthena Naseri	Gary Gilmartin	José de la Peña
	Dagmar Gloutak	Mary Martin
	Robert Miller	
	Rashid Sani	
	Arthur Schechter	

Transfer Information

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, 9; Math 7; Micro 1; Ph 10A/10AL, 10B/10BL; Phys 1; Psych 1A; Soc 1.

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.

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 course work 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 technical skills which may be helpful towards the seeking of immediate employment.

Preparation for the Major:

Mathematics -- two years high school algebra or Math 3 or equivalent.

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

Required Courses:	Units
Anth 2..... Cultural Anthropology.....	3
Chem 12..... Introductory Chemistry I.....	5
Econ 1..... Principles of Micro-Economics.....	3
Env Sc 1..... Environmental Science.....	4
Env Sc 2..... Environment and Human Interactions.....	4
Geol 2..... Physical Geology.....	3
Geol 2L..... Physical Geology Lab.....	1
Math 15..... Introductory Statistics.....	5
Math 16A..... Applied Calculus I.....	3
Math 16B..... Applied Calculus II.....	3
Pol Sc 3..... American Government and Politics.....	3
Total minimum units required in major area -- 37	

Suggested Course Sequence:

First Semester	Third Semester
Econ 1.....3	Chem 12.....5
Env Sc 1.....4	Math 16A.....3
Pol Sc 3.....3	
10	8

Second Semester	Fourth Semester
Env Sc 2.....4	Anth 2.....3
Math 15.....5	Geol 2.....3
9	Geol 2L.....1
	Math 16B.....3
	10

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 course work 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 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:	Units
Biol 2A..... General Biology I.....	4
Biol 2B..... General Biology II.....	4
Chem 1A..... General Chemistry I.....	6
Chem 1B..... General Chemistry II.....	6
Econ 1..... Principles of Micro-Economics.....	3
Env Sc 1..... Environmental Science.....	4
Env Sc 2..... Environment and Human Interactions.....	4

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	4
Ph 20B/20BL	Electricity and Magnetism/Lab	4
Total minimum units required in major area --		54

Suggested Course Sequence:

First Semester		Third Semester	
Chem 1A	6	Biol 2A	4
Econ 1	3	Math 25B	5
Env Sc 1	4	Ph 20A/20AL	4
	<u>13</u>		<u>13</u>
Second Semester		Fourth Semester	
Chem 1B	6	Biol 2B	4
Env Sc 2	4	Math 25C	5
Math 25A	5	Ph 20B/20BL	4
	<u>15</u>		<u>13</u>

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

■ Environmental Technology Option
Occupational
 See Engineering for curriculum

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

Prerequisite: Only one of the following: HS Biology or HS Chemistry or HS Physics or Env Sc 1 or Chem 12 or equivalent
 Class Hours: 3 lecture, 3 laboratory
 This course introduces the biological principles governing ecosystems. An analysis of environmental problems as they relate to world demography 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: 3 lecture
 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: 24 lecture total
 This lecture course will familiarize the students of Environmental Technology with the basic knowledge of current laws and regulations that govern air and water pollution, solid waste and hazardous material management. Federal, state, and local regulations will be reviewed as well as responsibilities and interrelationship of regulatory activities.

ENV SC 5 -- 1.5 Units
Environmental Sampling and Instrumentation

Corequisite: Chem 12 or EL 1
 Class Hours: 72 laboratory total
 This course will introduce 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 Director. 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 a laboratory staff member, 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 four 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 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.

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	Don Henderson
James Peddie	Mollie Hogan	
Gary Wilson	Nancy Hollenbeck	
	Rebecca Reid	
	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.

March 1 -- EATM application, school transcripts, and three letters of recommendation from employers or teachers, must be submitted to the EATM compound office by this date.

April 1 -- Applicants accepted for personal interviews will be notified. Interviews will be scheduled for the end of April.

May 15 -- Notification of accepted candidates for the EATM program.

Qualifying Requirements

- One of the following must be completed before applying to the program:
 - High school graduation and GPA of 2.5 or
 - General Education Development (GED) with a score of 45 and a minimum of 12 units of college with a 2.25 GPA or
 - 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: Applicant 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.
- The following documents must be on file at the EATM Program Office at Moorpark College by March 1:
 - All official high school and college transcripts
 - Completed EATM program application form
 - Three letters of recommendation from counselors, instructors, or employers other than relatives
- An application to Moorpark College must be filed for the appropriate semester.
- 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.

Academic Responsibilities of EATM Students

- Students are required to demonstrate a satisfactory understanding of the material presented by receiving a grade of C or better in all required EATM major courses. The EATM program prepares the student for positions in the industry which often involve working with dangerous animals and therefore require a thorough understanding of safety procedures. The completion of any EATM course with a grade of less than C indicates that the student's knowledge or skills are deficient in that area. For this reason, students receiving a grade of D must repeat the course with a grade of C or better before they can be awarded either the Certificate or the A.S. degree in Exotic Animal Training and Management.
- Receiving a failing grade of F in any EATM course may result in dismissal from the program. Failure in any EATM class indicates the student is not prepared to proceed to the next level of EATM courses.
- Students must maintain a grade point average in EATM courses of 2.0 or better each semester. Failure to do so may result in dismissal from the program.

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:	Units
EATM 1..... Animal Diversity.....	3
EATM 2..... Animal Health and Safety	2
EATM 3..... Exotic Animal Nutrition	2
EATM 4..... Animal Behavior	3
EATM 5..... Zoo Horticulture.....	3
EATM 6..... Anatomy/Physiology of Exotic Animals.....	2
EATM 10..... Projects in EATM.....	1
EATM 11A Exotic Animal Care and Handling.....	5
EATM 11B Exotic Animal Care and Handling.....	5
EATM 13A Exotic Animal Management & Supervision	5
EATM 13B Exotic Animal Management & Supervision	5
EATM 15..... Education & Entertainment in Animal Parks.....	3
EATM 21A Exotic Animal Training.....	1
EATM 23A Elementary Veterinary Procedures	4
EATM 23B Elementary Veterinary Procedures	4
EATM 35..... Animal Park Planning & Administration	2
EATM 40A Field Experience in EATM	4
EATM 45..... Advanced Education & Entertainment in Animal Parks	2-2
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:

EATM 15L..... Education & Entertainment Lab	1
EATM 21B Exotic Animal Training	1
EATM 21L..... Exotic Animal Training Laboratory.....	2
EATM 40B Field Experience in EATM	4

Zoo Keeping Option

This option is for students interested primarily in animal keeping jobs at zoos, aviaries, aquariums, research facilities, and wildlife rehabilitation facilities. Students are required to complete the core curriculum plus the following courses:

EATM 40B Field Experience in EATM	4-3
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Animal Training Option

This option is for students interested primarily in animal training jobs for the film/TV industry, oceanariums, zoos, the navy, handicapped assistance programs, and the pet industry. Students are required to complete the core curriculum plus the following courses:

EATM 21B Exotic Animal Training	1
EATM 21L Exotic Animal Training Laboratory	2-2
EATM 40B Field Experience in EATM	3

Wildlife Education Option

This option is for students interested primarily in wildlife or conservation education jobs for private education firms, zoos, theme parks, and wildlife rehabilitation centers. Students are required to complete the core curriculum plus the following courses:

EATM 15L Education & Entertainment Lab	1
EATM 21L Exotic Animal Training Laboratory	2
EATM 40B Field Experience in EATM	3
EATM 46 Wildlife Education	3

Total minimum units required in major area -- 68 - 70

Suggested Course Sequence:

First Year:

First Semester	Second Semester
EATM 1.....	EATM 3.....
EATM 2.....	EATM 4.....
EATM 5 or EATM 6.....	EATM 5 or EATM 6.....
EATM 11A.....	EATM 11B.....
EATM 15.....	EATM 15L.....
HE 5.....	
<u>18-19</u>	<u>13-14</u>

Interim	Summer Session
EATM 40A.....	EATM 40A.....
<u>1</u>	<u>3</u>

Second Year:

General EATM Option

Third Semester	Fourth Semester
EATM 10.....	EATM 13B.....
EATM 13A.....	EATM 21B.....
EATM 21A.....	EATM 21L or EATM 40B ...
EATM 21L or EATM 40B ...	EATM 23B.....
EATM 23A.....	EATM 35.....
EATM 45.....	EATM 45.....
<u>15-16</u>	<u>16-17</u>

Interim
EATM 40B.....
<u>1</u>

Zoo Keeping Option

Third Semester	Fourth Semester
EATM 10.....	EATM 13B.....
EATM 13A.....	EATM 23B.....
EATM 21A.....	EATM 35.....
EATM 23A.....	EATM 40B.....
EATM 40B.....	EATM 45.....
EATM 45.....	
<u>16</u>	<u>16</u>

Interim
EATM 40B.....
<u>1</u>

Animal Training Option

Third Semester	Fourth Semester
EATM 10.....	EATM 13B.....
EATM 13A.....	EATM 21B.....
EATM 21A.....	EATM 21L.....
EATM 21L.....	EATM 23B.....
EATM 23A.....	EATM 35.....
EATM 40B.....	EATM 45.....
EATM 45.....	
<u>17</u>	<u>16</u>

Interim
EATM 40B.....
<u>1</u>

Wildlife Education Option

Third Semester	Fourth Semester
EATM 10.....	EATM 13B.....
EATM 13A.....	EATM 23B.....
EATM 21A.....	EATM 35.....
EATM 21L.....	EATM 45.....
EATM 23A.....	EATM 46.....
EATM 40B.....	
EATM 45.....	
<u>17</u>	<u>16</u>

Interim
EATM 40B.....
<u>1</u>

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 those factors relating to the feeding and 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. (co-numbered Psych 12) *Transfer credit: CSU*

EATM 5 -- 3 Units

Zoo Horticulture

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 soils; 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 -- 2 Units

Anatomy/Physiology of Exotic Animals

Prerequisite: Admission to EATM major

Class Hours: 2 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.

EATM 10 -- 1-3 Units

Projects in EATM

Prerequisite: EATM 13A

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 students 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

Prerequisite: 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 presented.

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 instructs 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 21AB 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 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 Director. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units.

EATM 23A -- 4 Units

Elementary Veterinary Procedures

Prerequisite: 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 then related to the various disease processes involved with these systems, with the emphasis on how to recognize such disease processes.

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.

EATM 35 -- 2 Units**Animal Park Planning and Administration**

Prerequisite: EATM 11B

Class Hours: 2 lecture

This course deals with the design and operation of animal parks with emphasis on economic and legal considerations. Topics covered include regulations (local, state, and federal), budgeting, contracts, insurance, visitor services, and esthetics and functionality of enclosure design. Students will make field trips to various animal facilities and design a hypothetical facility.

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 46 -- 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.

French

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

B.A. Level	
Translator	Foreign-Exchange Trader
Diplomatic Office	Foreign Clerk
Tutor	Foreign Service Officer
Editor	

Faculty

Full-Time	Part-Time	Counselor
Howard Siegel	Sarah Cordova	Ofelia Romero-Motlagh
	Sami Dagher	
	Sara Wheeler	

Transfer Information

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, Santa Barbara: Fr 1, 2, 3, 4; Hist 1A, 1B.

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 read 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 Director. 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

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 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, 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 bachelors or advanced degree)

Economic Geographer	Cartographer
Aerial Photo Interpreter	Demographer
Research Marketing Analyst	Regional Analyst
Resource Planning Analyst	Political Geographer
Environmental Impact Analyst	City or County Planner
Environmental Research Assistant	

Faculty

Full-Time	Part-Time	Counselors
Gary Rees	Gilbert Dewart	Mike Johnson
	Joseph Glantz	Ofelia Romero-Motlagh
	Christiane Mainzer	
	Carolyn McGovern-Bowen	
	Jeffrey Meyer	

Transfer Information

Major requirements for upper-division standing at:

California State University, Northridge: Select one course from each of the following categories: Physical: Geog 1 or 5. Human: Geog 2, 3, 4 or 7.

University of California, Davis: (B.S.) Biol 2A; Chem 1A, 1B; CS 10/10L; Math 15, 25A, 25B or Math 25A, 25B, 25C; Zoo 1 or Bot 1 or Geol 4 or Ph 10A/10AL, 10B/10BL.

University of California, Santa Barbara: Geog 1, 4; select one course from: Biol 1; Bot 1; Env Sc 2; or Geol 2, 2L. Math 15; one UC transferable computer programming course.

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

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 pre-

sent-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 3 -- 3 Units

Geography of World Affairs

Class Hours: 3 lecture

A survey of world geography emphasizing the regions, people, and economic activities characteristic of the major political areas of the world, this course is designed for students who desire to improve their understanding of how world affairs are affected by the way we occupy the earth. *Transfer credit: CSU; UC*

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 those conditions contributing to general weather conditions and aviation weather. *Transfer credit: CSU; UC*

GEOG 5L -- 1 Unit

Introduction to Meteorology Laboratory

Prerequisite: Geog 5 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: 32 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 Director. 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	Park Naturalist
Mining Geologist	Geological Technician
Engineering Geologist	Technical Writer/Editor
Researcher	Laboratory Research Worker
Consultant	Aerogeologist
Librarian	Map Editor

Faculty

Part-Time	Counselors
Terry Davis	Mary Martin
Gilbert Dewart	Danita Redd Terry
Roberta Harma	
Gerald Simila	

Transfer Information

Earth Science

This program involves the study of natural phenomena of the earth designed to contribute to the students' liberal education and to prepare them for professions which require familiarity with astronomy, meteorology, oceanography, physical geography, and geology.

Major requirements for upper-division standing at:

California State University, Northridge: Astron 1/1L; Chem 1A/1B; Geog 5; Geol 2; Math 15 or CS 10/10L or 18/18L; Math 25A; Ph 10A/10AL, 10B/10BL.

Geological Sciences

This major is concerned with study of the earth's rocks and minerals and of the physical, chemical, and biological processes, past and present, at work in the earth's interior and on its surface. Career opportunities in the geological sciences are numerous in educational, governmental, and industrial organizations. Careers may be concerned with environmental problems, production, research, and teaching.

Major requirements for upper-division standing at:

California State University, Northridge: (Geology option): Chem 1A, 1B; CS 10/10L; Geol 2; Math 25A; Ph 10A/10AL, 10B/10BL or 20A/20AL, 20B/20BL; and two courses from: Math 15, Math 25B, or Ph 20C/20CL. (Geophysics option): Chem 1A, 1B; CS 10/10L, 18/18L; Geol 2; Math 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.

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 course work 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/Lab	4
or	
Ph 20A/20AL . Mechanics of Solids and Fluids/Lab.....	4
Ph 10B/10BL . General Physics II/Lab	4
or	
Ph 20B/20BL . Electricity and Magnetism/Lab	4
Total minimum units required in major area -- 46	

Suggested Course Sequence:

First Semester		Third Semester	
Chem 1A	6	Geol 3	3
Geol 2.....	3	Math 25A	5
Geol 2L.....	1	Ph 10A/10AL or	
	10	Ph 20A/20AL	4
			12
Second Semester		Fourth Semester	
Chem 1B	6	Geol 4	4
Math 15 or Math 25C.....	5	Math 25B	5
	11	Ph 10B/10BL or	
		Ph 20B/20BL.....	4
			13

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

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. CAN: GEOL 2 (Geol 2 & 2L)*

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 mineral and rock formation 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 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. Elementary 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 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 Director. 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*

German

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

B.A. Level	
Translator	Foreign-Exchange Trader
Diplomatic Office	Foreign Clerk
Tutor	Foreign Service Officer
Editor	

Faculty

Part-Time	Counselor
Jane Chapman	Ofelia Romero-Motlagh
Andrea Fuchs	
Lisa Shakoor	

Transfer Information

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.

University of California, Santa Barbara: Ger 1, 2, 3, 4; Hist 1A, 1B recommended.

German Courses

GER 1 -- 4 Units

Elementary German I

Class Hours: 4 lecture, 1 laboratory by arrangement

In 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 Director. 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

Desktop Publisher	Stripper/Platemaker
Production Artist	Press Operator
Electronic Prepress	Computer Technician
Process Camera Operator	Sales Representative

Faculty

Full-Time	Part-Time	Counselors
Sexton Stewart	Kerry Mehle	Donna Proske Allyn
	Diane Muscarella	José de la Peña
	Ruben Reyes	Don Henderson
	Leland Swindel	

Computerized Composition

Occupational Associate in Science Degree

This program is designed to prepare the students for various 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:	Units
BIS 10A Intro to the PC and DOS.....	1
CIS 1 Intro to Information Systems.....	3
CIS 1L CIS Introduction Lab.....	1
GC 10 Intro to Graphic Communications.....	3

Required Additional Courses:

Select one of the following options:

Sales	
Bus 30 Intro to Business and Economics.....	3
Bus 35 Sales Techniques.....	3
Bus 37 Marketing.....	3
Bus 39 Business Communications.....	3
GC 21 Production Art Techniques.....	3
GC 31A Process Camera.....	3

Application Specialist

Bus 39 Business Communications.....	3
GC 20 Intro to Windows & Desktop Publishing.....	2
GC 23A Desktop Publishing I (IBM Compatible).....	3
GC 23B Desktop Publishing II.....	3
GC 31A Process Camera.....	3
GC 41A Offset Presswork/Stripping/Platemaking.....	3

Field Service Engineer

CS 10/10L..... Intro to Computer Science/Pascal/Lab.....	4
CS 17A/17AL..... Computer Programming with C/Lab.....	4
EL 10/10L Passive Circuits/Lab.....	4
EL 16/16L Analog Circuits/Lab.....	4
EL 17/17L Digital Circuits/Lab.....	4
EL 21 Microprocessors and Microcomputers.....	2
EL 24 Diagnostics, Trouble Shooting & Repair.....	2
Total minimum units required in major area -- 25-32	

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

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.

Required Courses:	Units
GC 10 Intro to Graphic Communications.....	3
GC 20 Intro to Windows & Desktop Publishing.....	2
GC 21 Production Art Techniques.....	3
GC 23A Desktop Publishing I (IBM Compatible).....	3
GC 23B Desktop Publishing II.....	3
GC 31A Process Camera.....	3
GC 31B Advanced Process Camera.....	3
GC 41A Offset Presswork/Stripping/Platemaking.....	3
GC 41B Advanced Offset Presswork.....	3
GC 50 Estimating and Scheduling.....	3
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.

Required Courses:	Units
GC 10 Intro to Graphic Communications.....	3
GC 20 Intro to Windows & Desktop Publishing.....	2
GC 21 Production Art Techniques.....	3
GC 23A Desktop Publishing I (IBM Compatible).....	3
GC 23B Desktop Publishing II.....	3
GC 31A Process Camera.....	3
GC 31B Advanced Process Camera.....	3
GC 41A Offset Presswork/Stripping/Platemaking.....	3
GC 41B Advanced Offset Presswork.....	3
GC 50 Estimating and Scheduling.....	3
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

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, typography, 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 Director. 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 to develop 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)**

Prerequisite: GC 10 or GRD 10 or equivalent or concurrent

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, posterization 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 emphasizes halftone photography, including rescreening, duo-tones, 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 in-

cludes 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 stripping, 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/Stripping/Platemaking**

Prerequisite: GC 10 or concurrent enrollment

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 presensitive 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 transparent 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 posterization 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)**

Prerequisite: Two previous courses in Graphic Communications

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 Moorpark 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

Advertising Artist	Sign Painter
Illustrator	Silk Screen Artist
Designer	Sketch Artist
Graphic Artist	Title Designer
Mural Artist	Stencil Maker
Type Designer	Commercial Artist
Graphic Arts Technician	Paste-Up Camera Artist
Showcard Artist	

Faculty

Full-Time	Part-Time	Counselors
John Grzywacz-Gray	Sol Dember	Donna Proske Allyn
Theodore Phillips	Dona Geib	José de la Peña
	Nancy Haberman	Don Henderson
	Joseph Martin	

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
GC 31A Process Camera.....	3
GRD 10 Intro to Graphic Design	2
GRD 20A Graphic Design	3
GRD 20B Advertising Design	2
GRD 21 Lettering and Typography	2
GRD 30 Intro to Computer Graphics (Mac)	3
GRD 40A Beginning Illustration.....	3
GRD 40B Intermediate Illustration.....	3
GRD 50 Portfolio	2
Photo 1A..... Beginning Photography.....	3
Total minimum units required in major area -- 35	
Recommended Courses: Art 3, 4B, 12B, 13A/B; GC 10	

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 Director. 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.

GRD 40A -- 3 Units

Beginning Illustration

Prerequisite: Art 12A or concurrent

Class Hours: 2 lecture, 3 laboratory

Topical themes and individual story lines will be analyzed as potential subject matter for weekly drawings. Pen and ink, water color, collage and colored pencil techniques will be developed as principle means of self-expression. *Transfer credit: CSU*

GRD 40B -- 3 Units

Intermediate Illustration

Prerequisite: GRD 40A

Class Hours: 2 lecture, 3 laboratory

Advanced studies in pen and ink, water color washes and mixed media will encourage exploration of individual style as it may pertain to magazine, newspaper and book illustration. *Transfer credit: CSU*

GRD 40C -- 3 Units

Advanced Illustration

Prerequisite: GRD 40B

Class Hours: 2 lecture, 3 laboratory

Emphasis will be placed on the development of individual style in advanced techniques of illustration. Individual projects will be required of the student. May be taken two (2) times for credit. *Transfer credit: CSU*

GRD 41A -- 3 Units

Airbrush Techniques for Advertising & Industry (Basic)

Prerequisite: GRD 10 or GRD 40A or suitable portfolio

Class Hours: 2 lecture, 3 laboratory

The basic course presents the use of the airbrush for preparing illustrations and photo retouching in black and white for advertising, commercial art, and industrial use. The basic course covers the introduction of the airbrush and maintenance, through airbrush rendering and photo retouching with refurbishing of old photographs covered. All assignments are demonstrated and critiqued. Students must have access to an airbrush for the duration of the class.

GRD 41B -- 3 Units

Airbrush Techniques for Advertising & Industry (Advanced)

Prerequisite: GRD 41A

Class Hours: 2 lecture, 3 laboratory

The advanced class introduces color in the airbrush to students using transparent dyes, transparent colors and opaque designers colors for preparing full color art illustrations and color photo retouching. Many techniques and treatments are presented with "tricks of the trade" for producing highly acceptable commercial and industrial illustrations. All techniques and assignments are demonstrated by the instructor. Critiques are offered on all assignments. Students must have access to an airbrush for the duration of the class.

GRD 42 -- 3 Units

Airbrush Painting

Prerequisite: GRD 41A or equivalent

Class Hours: 2 lecture, 3 laboratory

This course provides specialized training in a variety of common airbrush applications in black and white and color. Students learn techniques which will be very helpful in preparing commercial, industrial and high tech presentations.

GRD 50 -- 2 Units

Portfolio

Prerequisite: 6 units in Graphic Design program including GC 31A

Class Hours: 1 lecture, 3 laboratory

The student will develop a professional presentation of art work that demonstrates his/her potential in the Graphic Design field. Emphasis is directed toward creating a varied collection of design projects including a self-promotional concept, resume, and cover letter needed for securing employment. *Transfer credit: CSU*

GRD 60A-Z -- 1-3 Units

Topics in Graphic Design

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 Graphic Design not covered in detail in the general Graphic Design course offerings. Topic courses are announced on a semester basis in the schedule of classes.

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.

60B -- 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. (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 videodisc 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)

Athletic Trainer	Health Officer
Hospital Administrator	Fitness Instructor

Faculty

Full-Time	Part-Time	Counselors
James Bittner	Katherine Holland-Dichter	Frank Bianchino
Ronald Halleran	Vance Manakas	Gail Goodman
Delbert Parker	Sandra Patterson	
Nancy Stewart	George Ragsdale	

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 included are: 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 -- 2 Units

The Trainer and Athletic Injuries

Class Hours: 1 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 inter-connection of the mind and body as a determinant of personal health factors. *Transfer credit: CSU; UC credit limitations.*

HE 9 -- .5 Unit

Cardiopulmonary Resuscitation★

Class Hours: 8 lecture total

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 anesthesia idiosyncrasy. Early warning signs, risk factors and prevention of heart disease will also be discussed. May be taken four (4) times for credit. **THIS COURSE DOES NOT FULFILL THE PE/HEALTH REQUIREMENT FOR THE ASSOCIATE DEGREE.**

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 Director. 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*

Topics which have been developed include:

60A -- 1 Unit

Alcohol & Cocaine Dependency

Class Hours: 16 lecture total

This course will examine the individual and societal effects of drug dependency using alcohol and cocaine as models of addiction and will include history, case studies, treatment modes, as well as local information and resources.

60B -- .5 Unit

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.

Health Sciences

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

Full-Time	Part-Time	Counselors (HS)
Guadalupe Aldana	Patricia Burkard	Frank Bianchino
Denise Byrne	Sandra Elders	Gail Goodman
Beatrice Epping	Janice Garcia	Edna Ingram
Kimberly Hoffmans	Sandra Joseph	Mary Martin
Linda Loiselle	Gary Metelak	
Jo Ann Moore	Christine Reioux	
Brenda Shubert	Susan Renteria	Counselors (NS)
Bonni Tromello	Julie Ann Walker	(RadT)
	Deborah Zweng-Davey	Frank Bianchino
		Gail Goodman
		Mary Martin

Clinical Joint Appointments

Meade Butler
Karla Carsey-Rounds
Albert Hermogeno
Catherine O'Brien
J. Michael Richardson

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:

- a. 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 educa-

tion and nursing science. In the Cal-State system the following courses *may* be required in addition to the minimum requirement for the Associate Degree in Nursing: 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.

- 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.

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

- 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; NtS 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:

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

University of California, Los Angeles

Radiologic Technology

Students wishing to apply for admission to a program leading to a Bachelor's Degree in Radiologic Technology have two options:

- a. 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.

- b. 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; Engl 1A, 1B; Math 15; Ph 10A/10AL; Zoo 1; (Additional lower-division Chemistry after transfer), 8 units of Humanities/Social Sciences.

The California dental schools are: Loma Linda University, University of California: Los Angeles, San Francisco, University of Pacific, University of Southern California.

The California medical schools are: Loma Linda University, Stanford University, University of California: Davis, Irvine, Los Angeles, 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

Procedures for Applying to a Health Science Program, Academic Year 1994-95

This application period is for all applicants in Health Sciences, including request for Advanced Placement. The application period for receipt of all applicant information and transcripts is:

Nursing

September 1 - October 15 - for admission to the 1995 Spring and Fall semesters with notification of candidates by *December 15*.

Radiography

February 1 - March 15 - for admission the following Summer session with notification of candidates by *April 1*.

Advanced Placement (Nursing)

After submission of applicant information during the application period, the candidate may complete clinical competency assessment testing scheduled *October 16 - November 15*.

Advanced Placement (Radiography)

After submission of applicant information during the application period, the candidate must complete the challenge exam scheduled *July 1 - July 15*.

Qualifying Requirements

Before the applicant will be considered for admission, all qualifying 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 transcript clerk in the Admissions Office that official transcripts are on file at Moorpark College prior to scheduling an application counseling interview.

1. One of the following *must be completed before applying* to a Health Science Associate Degree program:
 - 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 minimum of 12 units of college with a GPA of 2.25.
2. All of the following prerequisite qualifying requirements must be met prior to applying to a Health Science program:
 - 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 Engl 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 requirements:
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 college Bacteriology/Microbiology course with a laboratory and a minimum grade of C.

Medical Terminology

Although *not a requirement*, a course in Medical Terminology is highly recommended.

- e. Additional **Radiologic Technology** prerequisite qualifying requirements:

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 Terminology* is not required, but it is recommended.

Radiation Physics

Ph 5/5L or Ph 10A/10AL and 10B/10BL or equivalent. Completion of a minimum 5-unit college Radiation Physics course with a laboratory and a minimum grade of C.

All interested applicants should contact Counseling for an appointment to a group **Counseling Orientation Seminar** for Nursing or Radiography scheduled monthly.

Admission Process

1. Upon completion of the **Qualifying Requirements** and with all official transcripts on file at Moorpark College, the applicant is to schedule an appointment with a Health Science Counselor in order to review transcripts. The applicant is to **arrive thirty minutes** prior to the appointment in order to receive and **complete a program application**.
2. All programs are impacted. Each qualified applicant will be assigned 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.

Admission 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 Rubeola, Mumps, Rubella, Hepatitis B.**
 - ii. Current immunity status: **Varicella, 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.**

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. Each student is responsible for his or her own transportation to the extended campuses for clinical laboratory experience, some of which are a distance from the college. 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.

Advanced Placement/Transfer

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. 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.

Transfer students will have access to open spaces with priority given to students in good standing. Credit for courses taken at another institution will be evaluated on an individual basis. *Transfer students are not accepted 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.

Nursing

In order to aid in success in the Nursing program and to determine the appropriate entry level, it is recommended that each Advanced Placement candidate complete the *Clinical Competency Assessment Testing* offered October 16 - November 15. For information concerning the advanced standing options refer to the Nursing Student Handbook available in the Moorpark College Bookstore. Successful completion of the assessment testing and the prerequisites does not guarantee advanced standing admission. Admission is based on space available.

Radiography

For individual evaluation of eligibility contact the Health Sciences Department: Radiography program.

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 Health Science Counselor for units of credit through the appropriate Health Science 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 that which is required for licensure." Examples of such courses offered at Moorpark College are: Anth 1, 2, CD 40; Foreign Languages; HS 15; NS 22A/B, 89A-Z; NIS 1, 3, 4, 5; Phys 2; Psych 3, 4, 5, 8, 9, 10, 11, 30; Soc 2, 4, 5; 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:	Units
AnPhys 1/1L... Intro to Human Anatomy/Physiology/Lab:	5
3 hrs Lec., 6 hrs Lab. (prerequisite: Biol 1 or equiv. college course)	
<i>or</i>	
An 1..... General Human Anatomy: 2 hrs Lec, 6 hrs Lab. ... 4	4
(prerequisite: Biol 1 or Biol 2A or equiv.)	
<i>and</i>	
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 ADN 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:	
Anth 2..... Cultural Anthropology.....	3
Soc 1 Intro to Sociology	3
Choose one course from each category.	
American History and Institutions.....	3
Fine or Performing Arts.....	3
Communication or Analytical Thinking	3
(Phil 7 or 9, or Spch 7 recommended)	
Physical Education.....	1-3
Physical Science	4
(Chem 12 or Ph 5 meets the requirement)	
Biological Science.....	4
(Biol 1 or Biol 2A or AnPh 1/1L from Ventura College meets this requirement)	
Other suggested (not required) relevant courses: Computer Literacy course; HS 15, 18, 19A/B, 20; NtS 1, 5; Ph 1; Psych 1B, 3, 7, 11, 30	

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

Consult with a Health Science Counselor if you are considering transferring to a Bachelor's Degree in Nursing program to assist with course selections.

Required Nursing Science Courses:

Required Nursing Science Courses:	Units
NS 1A/1AL..... Beginning Nursing Science I/Beginning Clinical Nursing Lab I.....	2/2
NS 1B/1BL..... Beginning Nursing Science II/Beginning Clinical Nursing Lab II.....	2/2
NS 2A/2AL..... Maternal Child and Gynecological Nursing/Clinical Nursing Lab.....	2.5/2.5
NS 2B/2BL..... Intermediate Nursing Science I/Intermediate Clinical Nursing Lab I.....	2.5/2.5
NS 3A/3AL..... Intermediate Nursing Science II/Intermediate Clinical Nursing Lab II.....	2.5/2.5
NS 3B/3BL..... Psychiatric/Gerontological/Community Nursing/Clinical Nursing Lab.....	2.5/2.5

NS 4A/4AL.....Advanced Nursing Science/Advanced Clinical Nursing Lab	2.5/2.5
NS 4B.....Preparation for Professional Practice - Preceptorship	4
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Nursing Science Course Sequence:

First Semester		Third Semester	
HS 15*.....3		NS 3A/3AL.....5	
HS 18*.....0.5		NS 3B/3BL.....5	
(or Red Cross Certificate CPR-C).....4		NS 13A*.....0.5	
NS 1A/1AL.....4		NS 13B*.....0.5	
NS 1B/1BL.....4			<u>11</u>
NS 11A*.....0.5			
NS 11B*.....0.5			
	<u>12.5</u>		
Second Semester		Fourth Semester	
NS 2A/2AL.....5		NS 4A/4AL.....5	
NS 2B/2BL.....5		NS 4B.....4	
NS 12A*.....0.5		NS 14A*.....0.5	
NS 12B*.....0.5		NS 22A*.....2-3	
NS 22A*.....1-3			<u>11.5</u>
	<u>12</u>		
Summer Session			
NS 49*.....4			
	<u>4</u>		

*Elective Nursing Science Courses

■ Radiologic Technology Associate in Science Degree

The Associate Degree in Radiologic Technology (ADRT) is intended to develop the necessary knowledge and skill basic to the functions of the Radiographer in performing diagnostic x-ray procedures in hospital or other health care settings.

The radiography program is accredited by the Committee on Allied Health Education and the American Medical Association in cooperation with the Joint Review Committee on Education in Radiologic Technology, and by the California Department of Health.

The course work required for the Associate in Science Degree in Radiologic Technology is as follows:

Preparation for the Radiography Major:	Units
AnPhys 1/1L.. Intro to Human Anatomy/Physiology/Lab:	5
3 hrs Lec., 6 hrs Lab. (prerequisite: Biol 1 or equiv. college course)	
<i>or</i>	
An 1..... General Human Anatomy: 2 hrs Lec., 6 hrs Lab. ...	4
(prerequisite: Biol 1 or Biol 2A or equiv.)	
<i>and</i>	
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.)	
Ph 5/5L..... Radiation Physics/Lab: 3 hrs Lec., 3 hrs Lab.	4
(prerequisite: Math 1 or equiv.)	

Required General Education Courses:

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
(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 10A 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 II/ Fundamentals Clinical Lab I	3/5
RadT 1B..... Principles of Radiation Interaction and Radiographic Technique I	3
RadT 2A/2AL.. Fundamentals of Radiographic Practice II/ Fundamentals Clinical Lab II	3/5
RadT 2B..... Principles of Radiation Protection, Radiobiology/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.....	1/1
RadT 11..... Radiography Skills Lab I	1
RadT 12..... Radiologic Technology Skills Lab II.....	1
RadT 13..... Radiography Skills Lab III	1
RadT 14..... Radiographic Film Critique Skills Lab.....	1
RadT 49..... Radiographic Summer Practicum.....	4.5
	<u>56.5</u>

Radiologic Technology Course Sequence*:

All students must begin program Summer Session.	
Summer Session #1	Summer Session #2
HS 18.....0.5	RadT 49.....4.5
(or Red Cross Certificate CPR-C)	4.5
RadT 10/10L.....1/1	
	<u>2.5</u>
Fall Semester #1	Fall Semester #2
RadT 1A/1AL.....3/5	RadT 3A/3AL.....2/8
RadT 1B.....3	RadT 3B.....3
RadT 11.....1	RadT 13.....1
	<u>14</u>
Spring Semester #1	Spring Semester #2
RadT 2A/2AL.....3/5	RadT 4A/4AL.....3/8
RadT 2B.....3	RadT 14.....1
RadT 12.....1	<u>12</u>

*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 18 -- .5 Unit

CPR-C for Health Science★

Prerequisite: Admission to ADN Program or registered nurse, admission to ADRT Program or certified radiologic technologist, vocational

NS 13A -- .5 Unit**Nursing Skills Laboratory**

Prerequisites: NS 2B/2BL or equivalent

Corequisites: NS 3A/3AL

Class Hours: 3 laboratory for 8 weeks

This practicum will provide an opportunity for practical application of theory content from the Nursing Science 3A course work, through simulated clinical experiences in a beginning Psychiatric/Mental Health Nursing skills laboratory. May be taken three (3) times for credit. *Transfer credit: CSU*

NS 13B -- .5 Unit**Nursing Skills Laboratory**

Prerequisites: NS 2B/2BL or equivalent

Corequisites: NS 3B/3BL

Class Hours: 3 laboratory for 8 weeks

This required practicum will provide an opportunity for clinical application of theory content from the Nursing Science 3B course work, through simulated clinical experiences in an Intermediate Nursing Science II skills laboratory. The focus of the lab will be Intravenous Therapy and is a requirement in the major. Students will have "hands-on" exposure to computers. May be taken three (3) times for credit. *Transfer credit: CSU*

NS 14A -- .5 Unit**Nursing Skills Laboratory**

Corequisite: NS 4A/4AL

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 Director. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. *Transfer credit: CSU*

NS 49 -- 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.

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 bony 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 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

Class Hours: 16 laboratory

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 3AL, 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 cranium and facial bone area. Part II will introduce the student to cerebral angiography,

mammography, lymphangiography, and cine/cardio-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 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. THIS COURSE FULFILLS THE HEALTH GENERAL EDUCATION REQUIREMENT FOR AN A.S. DEGREE IN RADIOLOGIC TECHNOLOGY. *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 Unit
Introduction to Radiologic Technology

Prerequisite: Admission to the Radiography Program
Corequisite: RadT 10L
Class Hours: 2 lecture for 8 weeks

This course will focus on providing the new radiography students with entry-level information and skills to begin practice in a radiology 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: 6 laboratory for 8 weeks, the ninth 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 ninth 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 Director. 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 Summer 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 learned materials in Level I. The student is required to complete all specified radiographic examinations. May be taken two (2) times for credit.

Hebrew

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	Foreign-Exchange Trader
Diplomatic Office	Foreign Clerk
Tutor	Foreign Service Officer
Editor	

Faculty

Counselor

Ofelia Romero-Mottlagh

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)

Lobbyist	Program Development
Historian	Library Reference Worker
Politician	Communication Specialist
Law Clerk	Management Trainee
Diplomat	Researcher
Publicist	Museum Cataloger
Advertising	Marketing Researcher
Journalist	Pollster
Editor	Writer -- Fiction and Non-Fiction
Archivist	

Faculty

Full-Time	Part-Time	Counselors
Daniel Brown	Scott Cameron	Mike Johnson
Cecile Copsey	Jean Horlacher	Lisa Raufman
Gerald Fecht	Bruce Loynd	
Joseph Gonzalez	James Morrison	
Ranford Hopkins	Debra O'Neal	
Tomás Sanchez	John Pendleton	

Transfer Information

The study of history is a valuable basis for many careers both within and outside the social sciences. The majority of persons directly employed as historians today work in schools and colleges while others are employed by federal and state agencies, non-profit foundations, libraries, or corporations.

Major requirements for upper-division standing at:

California State University, Northridge: Hist 1A or 1B; 7A or 7B; 10 or 15 or 16; one other History course.

University of California, Santa Barbara: Hist 1A, 1B, 7A, 7B; Hist 9 or 10 or 16 plus one additional History course.

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 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 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 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 and/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 those 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, responsive 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 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 Director. 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 de-

mands 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 1945.

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 such 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.

60R -- 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 American Legacy of Vietnam

Prerequisite: A previous course in American History

Class Hours: 3 lecture

This is a historical, political and cultural analysis of the American involvement in Vietnam. Topics will include events leading up to and including the actual intervention of U.S. forces in the war culminating with the fall of South Vietnam in 1975.

*These courses are offered periodically.

Humanities

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 Kairschner
Linda Moore
Howard Siegel

Counselors
Don Henderson
Mary Martin

Transfer Information

Major requirements for upper-division standing at:
California State University, Northridge: Art 1A or 1B or 2; Mus 8.
Majors are required to demonstrate foreign language proficiency exam at the 1-2 level.

Humanities Courses

HUM 1 -- 6 Units The Individual and Society

Class Hours: 6 lecture

Designed to increase students' understanding of history, current social issues, and literature, the course will help students become more aware of the world in which they live and better able to master their freedom and responsibility in a democratic society. Special emphasis will be placed on improving writing skills. *Transfer credit: CSU; UC*

HUM 2 -- 6 Units The Individual and the Arts

Class Hours: 6 lecture

Designed to increase students' understanding of the arts and literature, this course will help students become more aware of the world in which they live through knowledge of the arts past and present. Special emphasis will be placed on improving writing skills. *Transfer credit: CSU; UC*

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 genres, 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 consider such factors as visions 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 Director. 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 "reel" 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 "reel" 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.

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	Color Consultant
Interior Designer	Sales Representative
Furniture Buyer	Lighting Consultant
Professional Shopper	

Faculty

Full-Time	Part-Time	Counselor
Paul Pritchett	Patricia Sendejas	José de la Peña

Transfer Information

This program has been developed to provide students with practical skills and knowledge in areas of design, color, space planning and textiles for the purpose of entering the expanding field of interior design.

Major requirements for upper-division standing at:
 California State University, Fresno: Art 1B, 4A; DT 2; Engl 1A; Hist 7A or 7B; ID 5; Math 15; Pol Sc 3; Psych 1A; Spch 1.
 California State University, Northridge: Family Environmental Sciences. Interior Design option: Art 4A, 4B, 12A; ID 31.
 See counselor for additional options.

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:	Units
Art 2..... Art Appreciation	3
Art 4A..... Color and Design	3
Bus 32..... Small Business Management	3
DT 31..... Interior Design Drafting	3
ID 5..... Beginning Interior Design.....	3
ID 6..... Materials and Installations.....	3
ID 7..... Space Planning	3
ID 8..... Advanced Interior Design.....	3
ID 9..... Interior Design Graphics and Presentation.....	3
ID 31..... Textiles	3
General Education Courses	24
Total required units in major --54-24 (GE) = 30	
Recommended Courses: Bus 35; DT 2	

Suggested Course Sequence:

First Semester	Third Semester
Art 2.....3	Bus 32..... 3
DT 31.....3	ID 7..... 3
ID 5.....3	General Education..... 6
ID 6.....3	12
General Education.....3	
15	
Second Semester	Fourth Semester
Art 4A.....3	ID 8..... 3
ID 31.....3	ID 9..... 3
General Education.....9	General Education..... 6
15	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:	Units
Art 2..... Art Appreciation	3
Art 4A..... Color and Design	3
Bus 32..... Small Business Management	3
DT 31..... Interior Design Drafting	3
ID 5..... Beginning Interior Design.....	3
ID 6..... Materials and Installations.....	3
ID 7..... Space Planning	3
ID 8..... Advanced Interior Design.....	3
ID 9..... Interior Design Graphics and Presentation.....	3
ID 31..... Textiles	3
Total minimum units required -- 30	
Recommended Courses: Bus 35; DT 2	

Interior Design Courses

ID 5 -- 3 Units Beginning Interior Design

Prerequisite: None. Art 4A is recommended
 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

Prerequisites: DT 31, ID 5
 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, computers and code requirements. Practical application will be demonstrated through laboratory projects. *Transfer credit: CSU*

ID 8 -- 3 Units Advanced Interior Design

Prerequisites: DT 31, ID 5, ID 7
 Class Hours: 3 lecture

This is an advanced study of interior design as related to family living. 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

Prerequisite: Art 4A
 Corequisite: ID 8
 Class Hours: 3 lecture

This course surveys the standard materials for Interior Design presentation. The principle foci of this course are the development of a portfolio, instruction in verbal presentation and exploration of media common to the marketplace. *Transfer credit: CSU*

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 Director. 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, uses and care. It is designed to give a basic knowledge of textiles which will help the student in selecting and caring for textiles. *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.

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.....	
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.

Italian

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

B. A. Level	
Translator	Foreign-Exchange Trader
Diplomatic Office	Foreign Clerk
Tutor	Foreign Service Officer
Editor	

Faculty

Part-Time	Counselor
Damiano Marano	Ofelia Romero-Motlagh
David Pardess	

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 Director. 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	
Translator	Foreign-Exchange Trader
Diplomatic Office	Foreign Clerk
Tutor	Foreign Service Officer
Editor	

Faculty

Part-Time	Counselor
Naoko Hall	Ofelia Romero-Motlagh
Paul Jonokuchi	

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 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 media of mass communications for those students who feel it would contribute to their liberal education.

Career Opportunities

Reporter	Advertising Assistant
Feature Writer	Writer
Copy Editor	Publicity Director
Editorial Assistant	Technical Writer
Make-up Editor	Proofreader
Photographer	Stringer
Lay-out Worker	Production Assistant

Faculty

Full-Time	Part-Time	Counselor
Bona Dillon	Gerald Olsen	Don Henderson
John Grzywacz-Gray		

Transfer Information

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

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:	Units
Journ 1 Media and Society.....	3
Journ 2 News Reporting and Writing.....	3
Journ 3 Advanced News/Feature Writing.....	3
Journ 8 Basic Photo-Journalism.....	3
Journ 9 Copy Editing and Make-up.....	3
Journ 10A Newspaper Production.....	3
Journ 12 Broadcast Journalism.....	3
Journ 14 Intro to Public Relations.....	3

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 implication of media. (co-numbered RT 1) *Transfer credit: CSU; UC*

JOURN 2 -- 3 Units

News Reporting and Writing

Prerequisite: Engl 1A or equivalent skills which may be measured by the college assessment process

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; UC. CAN: JOUR 2*

JOURN 3 -- 3 Units

Advanced News/Feature Writing

Prerequisite: Engl 1A or equivalent skills which may be measured by the college assessment process

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

Prerequisite: Engl 1A or Journ 2 or equivalent

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

Prerequisites: Journ 2 with a grade of "C" or better; ability to type; recommend concurrent enrollment in Journ 10A or Journ 10B for Journalism majors

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, proof-reading, 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

Prerequisites: Journ 1, Journ 2 or equivalent

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

Prerequisite: Journ 8 or equivalent experience

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

Prerequisites: Journ 1, Journ 2 or equivalent

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 Engl 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**

Prerequisite: Engl 1A or equivalent

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 Director. 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.

Topics which have been developed include:

60A -- 4 Units

Cultural Diversity in the Media★ (Offered Summer only)

Prerequisite: Command of basic English skills as demonstrated by a written sample

Class Hours: 3 lecture, 3 laboratory

This course is an extensive introduction to various aspects of media, with specific concentration on newspaper journalism. It is open to high school juniors and seniors who qualify for concurrent enrollment.

**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

Donna Proske Allyn
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.
2. Critical Reasoning: Phil 7.
3. Speech Communication: Spch 1 or 7.
4. Introduction to Literature: Engl 1B or 30 or 31.
5. Foreign Language: Any intermediate-level (3) foreign language course.
6. Mathematics: Math 10 and Math 210L after transfer.
7. Biology: Biol 1.
8. Physical Science: Phy Sc 1, 1L.
9. World Geography: Geog 2.
10. Roots of European Society & Culture: Hist 1A.
11. African, Asian and Latin American Society & Culture: Hist 9 or 10 or 15.
12. U.S. History: Hist 3.
13. U.S. Government: Pol Sc 3.
14. California History & Geography: Geog 10 or Hist 8.
15. Philosophy: Phil 1.
16. Ethics, Values, and Religion: Phil 2 or 11.
17. Visual & Performing Arts: Select one course from: Art 1A, 1B, 2; Mus 8; ThA 1.
18. Child Development: CD 30 or Psych 4.

Major requirements for advanced standing at:

California Lutheran University:

1. Engl 1A & 1B.
2. ThA 2A.
3. Spn 1 & 2.
4. Math 10 or 13.
5. Biol 1.
6. Phy Sc 1, 1L.
7. Geol 2, 2L.
8. Pol Sc 3.
9. Geog 1.
10. Psych 1A.
11. Phil 2.
12. Mus 1.
13. NtS 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.
3. Spch 1.
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.

Mathematics

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

Christine Aguilera
Beverly Barker
Alberto Beron
Jane Broadbooks
Kathryn Fink
Keith Hilmer
Mary LaBarge
Fred Meyer
Charles Molnar
Mahyad Rahnamaie

Deborah Ritchie
Benjamin Rode
Fred Schaak
Kokki Shindo
Robert Stephens
Arthur Szylewicz
Roger Walters
David Weinstein
Grethe Wygant

Counselors

Edna Ingram
Mary Martin
Danita Redd Terry

Part-Time

Nicholas Arnold
Joseph Barr
Jean Calahan
Charles T. Chen
Janice Christensen
Christine Cole
Robert Davis
Leslie Foster
Eugene Foxman
James Gilmore
Thomas Greenwood
Nella Hartnell
Thomas Hetherington
Robert Holden
Gary Hughes
Robert Jones
Larry Lace
Cecilia Leonard
John Lin
Sandra Lofstock
Richard McIntyre

Dean Meyers
Stephen Mussack
John Mutolo
David Ogawa
James Riley
David Rodabaugh
Brenda Rudin
Kristine Ryan
Virginia Seaton
David Smith
Tien-Lun Soong
Zhila Tabatabai
Karen Tait
Manuel Tessier
Linda Trexel
John Wells
John Werth
James Wilkes
Angela Wilkins
Leo Wingle

Transfer Information

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, Berkeley: Math 25A, 25B, 25C, 31, 35.
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 20ABC with Labs.
University of California, Santa Barbara: CS 10/10L or 18/18L; Math 25A, 25B, 25C, 30, 31, 35; Ph 10A/10AL or Ph 20A/20AL.

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:

	Units
CS 18/18L..... Computer Programming - FORTRAN/Lab	4
Math 25A..... Calculus with Analytic Geometry I.....	5
Math 25B..... Calculus with Analytic Geometry II.....	5
Math 25C..... Calculus with Analytic Geometry III.....	5
Math 31..... Introduction to Linear Algebra.....	3
Math 35..... Applied Differential Equations.....	3
Ph 20A/20AL . Mechanics of Solids and Fluids/Lab.....	4
Ph 20B/20BL . Electricity and Magnetism/Lab.....	4
Total minimum units required in major area -- 33	

Recommended Courses: Chem 1A; CS 10/10L; Math 15, 30; Ph 20C/20CL

Suggested Course Sequence:

First Semester		Third Semester	
CS 18/18L.....	4	Math 25C.....	5
Math 25A.....	5	Math 31.....	3
	9	Ph 20B/20BL.....	4
			12
Second Semester		Fourth Semester	
Math 25B.....	5	Math 35.....	3
Ph 20A/20AL.....	4		3
	9		

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

Mathematics Courses

IMPORTANT NOTES

- 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.
- 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.
- 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★

Prerequisite: Math 9 or equivalent college course, or equivalent skills which may be measured by the college assessment process
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★

Prerequisite: Math 1 or equivalent college course, or equivalent skills which may be measured by the college assessment process
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, radian 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 8*

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★

Prerequisite: Math 3 or equivalent college course, or equivalent skills which may be measured by the college assessment process
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

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. 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 (under review)*

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 15S -- 1 Unit Introductory Statistics Discussion Session★

Prerequisite: Math 3 or equivalent college course, or equivalent skills which may be measured by the college assessment process
Corequisite: Math 15
Class Hours: 1 lecture

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 Math 12 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: CS 18/18L and (Math 16A or Math 25A)
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 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 Director. 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.*

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★

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: 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'Hospital'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★

Prerequisite: Math 25A or Math 16B or equivalent
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'Hospital'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 attaining 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.

Microbiology

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

Music

The Moorpark College Music Department offers a wide variety of classes designed 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

Accompanist	Composer (studio, religious, educational, classical concert)
Arranger/Orchestrator	Conductor/Music Director
Church Musician	Instrument Repairperson
Copyist	Librarian (public, university, radio/TV)
Editor	Musicologist/Researcher
Instructor/Tutor/Coach	Music Business Administrator
Librettist/Lyricist	Public Relations/Agent
Performer	Radio Announcer/Disc Jockey
Publisher	
Salesperson	

Faculty

Full-Time	Part-Time	Counselor
Orbie Ingersoll	Marilyn Anderson	Don Henderson
Dolly Kessner	Edward Demmond	
James Song	Suzanne Julian	
James Stemen	Michael Kozubek	
Joan Thompson		

Transfer Information

Major requirements for upper-division standing at:
 California State University, Northridge: Mus 2A, 2B, 2C, 2D, 9A, 9B. Ensembles: At least one course each semester from Mus 10, 12, 15.
 University of California, Davis: Mus 2A, 2B, 2C, 2D.

■ 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:	Units
Mus 2A Diatonic Harmony	3
Mus 2B Chromatic Harmony	3
Mus 2BL Aural Skills II.....	1
Mus 2D Tonal Counterpoint.....	3
Mus 2DL Aural Skills IV	1
Mus 3A Aural Skills I.....	2
Mus 9A Music History and Literature	3
Mus 9B Music History and Literature	3
Mus 25A/B Class Piano	1.5-1.5

Area Specializations

Vocal Music Specialization

Required Courses:	Units
Mus 13A/B Fundamentals of Vocal Technique I-II	2-2
Mus 13C/D Advanced Vocal Development I-II.....	2-2
Required Additional Courses:	
Select at least one (1) vocal performance class each semester from the following:	
Mus 10 Concert Choir	2
Mus 12 Voice Ensemble.....	2
Mus 16 Voice in Opera Workshop.....	2
Mus 60D Masterworks Chorale.....	2
NOTE: Each performance class may be repeated.	
Total minimum units required in major area -- 38	

Recommended Courses: Mus 2C, 2CL, 25C, 25D Instrumental Music Specialization

Required Courses:	Units
Mus 14 Fundamentals of Instrumental Technique.....	2
Mus 25C/D Class Piano	1.5-1.5
Required Additional Courses:	
Select one (1) instrumental ensemble performance class each semester from the following:	
Mus 15 Orchestra	2
Mus 18 Jazz Ensemble	2
Mus 19 Chamber Music.....	2
Mus 21 Concert Band	2
NOTE: Each performance class may be repeated.	
Total minimum units required in major area -- 35	
Recommended Courses: Mus 2C, 2CL	

Music Theory & Composition Specialization

Required Courses:	Units
Mus 2C Harmonic Analysis and Synthesis	3
Mus 2CL Aural Skills III.....	1
Mus 25C/D Class Piano	1.5-1.5
Required Additional Courses:	
Select one (1) performance class each semester from the following:	
Mus 10 Concert Choir	2
Mus 15 Orchestra	2
Mus 16 Voice in Opera Workshop.....	2
Mus 19 Chamber Music.....	2
Mus 21 Concert Band	2
Mus 60D Masterworks Chorale.....	2
NOTE: Each performance class may be repeated.	
Total minimum units required in major area -- 37	

Keyboard Music Specialization

Required Courses:	Units
Mus 20 Piano Ensemble.....	2-2
Mus 25C/D Class Piano	1.5-1.5
Required Additional Courses:	
Select one (1) performance class each fall semester from the following:	
Mus 10 Concert Choir	2
Mus 19 Chamber Music.....	2
Mus 60D Masterworks Chorale.....	2
NOTE: Each performance class may be repeated.	
Total minimum units required in major area -- 33	
Recommended Courses: Mus 2C, 2CL	

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.

Required Courses for all options:	Units
Mus 2A Diatonic Harmony	3
Mus 2B Chromatic Harmony	3
Mus 3A Aural Skills I.....	2
Mus 9A Music History and Literature	3
Select one of the following options:	

Choral Conducting

Required Courses:	Units
Mus 10 Concert Choir	2-2
Mus 13A/B Fundamentals of Vocal Technique I-II	2-2
Mus 25A/B Class Piano	1.5-1.5
Mus 27 Choral Conducting	2
Mus 60D Masterworks 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 Music.....	2-2
Mus 21 Concert Band	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 Voice in Opera Workshop.....	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

A beginning course in music theory, notation, intervals, scales, triads, sight-singing, and dictation, 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 2A -- 3 Units

Diatonic Harmony

Prerequisite: Mus 1

Class Hours: 3 lecture

This course is a study of diatonic harmonic vocabulary, four-part chorale writing and voice-leading, figured bass, harmonic progression, melodic invention and harmonization, non-harmonic tones, and seventh chords. Concurrent registration in Mus 3A highly recommended. 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 chromatic harmonic vocabulary, foreign-key modulation, keyboard and instrumental styles, composition. Concurrent enrollment in Mus 2BL required. Transfer credit: CSU; UC

MUS 2BL -- 1 Unit

Aural Skills II

Corequisite: Mus 2B

Class Hours: 3 laboratory

This is a continuation of sight-singing, rhythmic, melodic, diatonic, and introduction to chromatic harmonic dictation to correlate to harmonic vocabulary of Mus 2B. The Music Learning Center will be used extensively. May be taken two (2) times for credit. Transfer credit: CSU; UC

MUS 2C -- 3 Units

Harmonic Analysis and Synthesis

Prerequisite: Mus 2B

Corequisite: Mus 2CL

Class Hours: 3 lecture

This course is designed to be an extension of Mus 2A/B with a more intensive examination of harmonic problems in musical literature. Concurrent enrollment in Mus 2CL required. 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 class deals with the analysis and composition of 18th century contrapuntal forms in the style of J.S. Bach. Culmination 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 is a continuation of Mus 2CL with extensive 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 3A -- 2 Units

Aural Skills I

Class Hours: 1 lecture, 3 laboratory

This course includes sight-singing, rhythmic, melodic, and diatonic harmonic dictation to correlate to harmonic vocabulary of Mus 2A. The Music Learning Center will be used extensively in the class. May be taken two (2) times for credit. Transfer credit: CSU; UC

MUS 6 -- 3 Units

Introduction to Jazz

Class Hours: 3 lecture

This class is a survey 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 presents a survey of musical history with special emphasis on the understanding and enjoyment of music. It will investigate, through directed listening, the basic elements of music, the structure of musical compositions, and the instruments of the orchestra which transport the composer's ideas. This course will also focus on the various styles and characteristics of the musical historic periods and the composers most representative of these elements. Not recommended for Music majors. Transfer credit: CSU; UC

MUS 9A -- 3 Units

Music History and Literature

Class Hours: 3 lecture

This course begins with a study of the musical activity, influences, and contributions of the Greek and Roman civilizations. It then traces 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 9B -- 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 learns 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 Lieder, 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 development through advanced vocal exercises and the introduction of advanced song 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

Orchestra

Prerequisites: Must be able to read music and be proficient on an orchestral instrument

Class Hours: 1 lecture, 3 laboratory

Students acquire preparation and performance of orchestral repertoire. May be taken four (4) times for credit. *Transfer credit: CSU; UC**

MUS 16 -- 2 Units

Voice in Opera Workshop

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. Class is designed for singers with proven ability with interest in drama. 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 Music

Prerequisite: Ability to play a musical instrument and to read music notation

Class Hours: 1 lecture, 3 laboratory

This course offers instruction in music for instrumental performance. Graded literature for various instrumental combinations for rehearsal and performance is studied. 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

Concert Band

Prerequisite: Ability to perform on a standard band instrument

Class Hours: 1 lecture, 3 laboratory

This course will focus on the preparation and performance of suitable Concert Band literature and other suitable literature in support of various campus activities and events. 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 Director. 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 acoustical 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, 6/8, 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

Prerequisites: 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 29; 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 29; 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

Masterworks 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.

Nursing Science

All Nursing Science courses are listed with the Health Science courses. Refer to that section alphabetically for full course information.

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.

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 bachelors degree of advanced studies)
Diet Aide
Diet Program Lecturer

Faculty

Full-Time	Part-Time	Counselors
Judy Alexander	Bridget Harvey-Elliott	Frank Bianchino
	Linda Vickers	Ofelia Romero-Motlagh

Transfer Information

Major requirements for upper-division standing at:
California State University, Northridge: Dietetics: Biol 2A; Chem 8, 9, 12, 13; Engl 1A; Math 3 (for ADA requirement); Micro 1; NtS 1; Phys 1; Psych 1A; Soc 1 or Spch 1.
University of California, Davis: Biol 2A; Bot 1; Chem 1A, 1B, 8, 9; CS 10/10L; Math 15, 25A; Zoo 1.

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 Director. The project will involve library work or laboratory work or field trips. May be taken for a maximum of 6 units. *Transfer credit: CSU*

NtS 89A-Z -- .5-3 Units

Institutes in Nutritional Science★

Class Hours: Variable

This is a special series of short courses focusing on particular aspects of Nutritional Science. Courses dealing with foods and nutrition will provide an opportunity for specialized study.

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	Part-Time	Counselors
Donna Proske Allyn	Mary Martin	José de la Peña
Francis Bianchino	Gerald Olsen	Edna Ingram
Rick Cardoni		Mike Johnson
Donald Henderson		Danita Redd Terry
Susan Izumo		
Lisa Raufman		
Ofelia Romero-Motlagh		

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

Prerequisite: None. (Recommend 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 set-

ting. 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 -- 1 Unit

Orientation★

Class Hours: 16 lecture total

This course is an introduction to college and will provide: information about the college's functions, programs, services and student responsibilities; self-assessment through testing and evaluation; training in study skills. Class is designed to provide the information necessary for a successful transition to Moorpark College and beyond.

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.)

Philosophy

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
Victor Fontaine	David Arthur	Mike Johnson
Elton Hall	Diana Axelsen	Mary Martin
	Janice Daurio	
	Christopher Horrock	
	Selton Peters	
	Mark Pursley	
	Michael Rosenthal	

Transfer Information

Philosophy

The Philosophy major is intended to provide undergraduate preparation for graduate study in philosophy and to contribute to a broad general education and to preprofessional training in areas (e.g., law, theology) where early specialization is normally not encouraged.

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 7; additional lower-division courses to be taken after transfer.

University of California, Santa Barbara: Phil 7. Analytical Reasoning Option: Select one course from: CIS 4A or 4B or CS 10 or 18; Econ 1, 2; Psych 1A. Humanities Option: Engl 30, 31 or Hist 1A, 1B. Ethnicity and Public Policy: Additional courses after transfer.

Religious Studies

The Religious Studies major is designed to provide a background for understanding the forms and traditions of religion that have appeared in human culture. Professional careers in research and/or teaching are open in education at all levels, and graduates can also pursue careers in related areas -- various forms of ministry, counseling, or social work.

Major requirements for upper-division standing at:

California State University, Northridge: Phil 11; other lower-division courses to be taken after transfer.

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, skepti-

cism, 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

Prerequisite: Engl 1A

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 Engl 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 the needs 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 Director. 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.

Photography

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	Audio-Visual Designer
Aerial Photographer	Corporation Photographer
Still Photographer	Photo Finishing Specialist
Photograph Restorer	Slide Program Producer/Director
Photograph Printer	Fine Art Photographer
Photojournalist	Editorial Photographer

Faculty

Full-Time	Part-Time	Counselor
John Grzywacz-Gray	Amani Fliers	Don Henderson
	Judith Hopkins	
	Virginia Lawler	
	James Parker	

■ 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:	Units
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:	Units
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 posterization. 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, 3 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 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 Journ 8) *Transfer credit: CSU*

PHOTO 9 -- 4 Units

"Reporter" Staff Photography

Prerequisite: Photo 8 or suitable portfolio

Class Hours: 1 lecture, 9 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 Director. 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. (co-numbered GRD 60E)

Physical Education

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

Associate Degree Level

Athlete	Playground Director
Recreation Specialist	Recreation Leader
Dance Teacher	Referee
Camp Counselor	Industrial Recreation Leader
Dancer	Racquet Club Manager
Community Center Leader	Fitness Specialist

Bachelors Degree Level

Athletic Trainer	Resort Sports Coordinator
Teacher	Health and Safety Director
Pre-Physical Therapist	YM/YWCA Instructor
Corrective Therapist	Sports Editor
Exercise Test Technologist	Therapist
Sportscaster	Dance Therapist
Coach	Recruiter
Choreographer	

Faculty

Full-Time

James Bittner
Ronald Halleran
John Keever
Stella Matsuda
MoDean McCullough
Gilbert Mendoza
Alvyn Nordquist
Delbert Parker
Nancy Stewart
Willard Thurston
Manuel Trevino

Part-Time

Gary Abraham
Rene Baum
Steven Berk
Stephen Burkhart
Kecia Davis
Charlene Dow
Francis Fredette
Avalon Garrett
Donald Green
Donald Hewitt
Margaret Hyun
Pauletta Matsui
David Murphy
Daniel Ohayon
Joseph Ortiz
Patrick Pakele
Frank Parodi
Sandra Patterson
Mario Porto
Dennon Rawles
Michael Stewart
Kenneth Wagner
Lisa Ziegler

Counselor

Mike Johnson

Transfer Information

The major in Physical Education is designed to permit flexibility in preparing students for various professional goals. Graduates may find careers in such fields as teaching, therapeutics, coaching, recreation work, dance, and work with scientific foundations.

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.

University of California, Davis: Biol 2A; Chem 1A, 1B; Math 15; Psych 1A; Zoo 1.

Physical Education Courses

Students planning to take more than 4 units of Physical Education 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 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), Pacers (motorized treadmills), Lifecycles (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**

PE 3 -- 1.5 Units

Running for Fitness and Conditioning

Class Hours: 1 lecture, 2 activity

This course is designed to help the individual improve his physical health and general well being. The course is open to all students. Emphasis will be placed on endurance training with a gradual increase in distance. Special attention will be given to cardiovascular fitness through running. *Transfer credit: CSU; UC**

PE 4 -- 1.5 Units

Body Conditioning through Rhythmics/Aerobics

Class Hours: 1 lecture, 2 activity

This course covers instruction and supervised practice in aerobic dancing. It is a series of simple but vigorous dances which improve circulation, respiration, digestion, agility, flexibility, coordination and rhythm, as well as endurance and strength. *Transfer credit: CSU; UC**

PE 5 -- 1.5 Units

Bowling

Class Hours: 1 lecture, 2 activity

This course is designed to help the student develop skills, including rules, etiquette, safety and techniques of the game of bowling. Class is conducted off campus. *Transfer credit: CSU; UC**

PE 6A -- 1.5 Units
Beginning Golf I

Class Hours: 1 lecture, 2 activity

This course covers development of skill in learning to play golf which would include rules, etiquette, background and analysis of techniques. *Transfer credit: CSU; UC**

PE 6C -- 1.5 Units
Intermediate Golf

Prerequisite: PE 6A or equivalent

Class Hours: 1 lecture, 2 activity

This course covers advanced techniques and skill development on links play. *Transfer credit: CSU; UC**

PE 6D -- 1.5 Units
Advanced Golf

Prerequisite: PE 6C or equivalent

Class Hours: 1 lecture, 2 activity

The course studies bio-mechanical principles of all elements of golf. Special attention will be given to preparation for all aspects of golf competition. *Transfer credit: CSU; UC**

PE 7 -- 1 Unit
Step-Aerobics

Class Hours: .5 lecture, 1.5 activity

A course designed to develop proficiency in step-aerobics with principles of fitness and the development of a high-level cardiovascular efficiency. This is a program so comprehensively balanced, that it works every major muscle group in the lower body while it helps to strengthen and condition the upper body. The platform is adjustable to low or high impact and most important the fitness level of all students can be met in the same class. *Transfer credit: CSU; UC**

PE 8 -- 1.5 Units
Power Lifting/Free Weights

Class Hours: 1 lecture, 2 activity

This course in weight training and conditioning is designed to build strength, power, and bulk necessary for athletic sports. Exercise will center on the development of upper body strength, rehabilitation and strengthening of knee joints, and power lifting for the lower body. Emphasis will be placed on power lifting. The conditioning phase will emphasize the development of agility, quickness, coordination, balance and speed through the implementation of competitive drills and routines. *Transfer credit: CSU; UC**

PE 9 -- 1.5 Units
Racquetball

Class Hours: 1 lecture, 2 activity

This course covers the basic fundamentals of racquetball, game rules, proper use and purchase of equipment, court etiquette and safety. *Transfer credit: CSU; UC**

PE 10 -- 1.5 Units
Skiing

Class Hours: 1 lecture, 2 activity

This course will cover the G.L.M. dry land ski instruction. The course will also cover the purchasing, care and repair of ski equipment and clothing. *Transfer credit: CSU*

PE 11A -- 1.5 Units
Beginning Tennis I

Class Hours: 1 lecture, 2 activity

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 12 -- 1.5 Units
Badminton

Class Hours: 1 lecture, 2 activity

This is a course in the development of badminton skills, including rules, etiquette, and techniques of playing badminton. *Transfer credit: CSU; UC**

PE 13 -- 2 Units
Hiking and Backpacking

Class Hours: 1 lecture, 3 activity

This course is a lecture, field study and experience course in the sport of hiking and backpacking. Conditioning, skills, information and resources for the sport will be covered. Safety procedures are emphasized. Field trips are required. *Transfer credit: CSU*

PE 20A -- 1.5 Units
Adaptive Physical Education

Prerequisite: Classification for enrollment by Director of School Health Services and College Physician

Class Hours: 1 lecture, 2 activity

This is a special course designed to meet the needs of students who are unable to participate in regular physical education activity classes. Students will be classified by the college physician as to the type of physical activity in which they may participate. Each student is given individual attention in terms of adapted and recreational activities suited to his/her work. *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 Director. 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: Must demonstrate advanced baseball skills

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

Prerequisites: Basketball experience, understanding of the rules

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

Prerequisite: Advanced football ability

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

Prerequisite: PE 25C or varsity high school experience

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

Prerequisite: Basic track ability

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 research of the skills needed for the 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 6-player game. More expo-

sure 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 6-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 36A -- 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 36B -- 1 Unit

Self-Defense and Assault Prevention

Prerequisite: PE 36A

Class Hours: 2 lecture/activity

This course covers lecture and demonstration of practical self-defense, community safety, and assault prevention. The course emphasizes methods and techniques of defense against weapon assault. *Transfer credit: CSU; UC**

PE 36C -- .5 Unit

Basic Self-Defense Refresher

Prerequisite: PE 36A

Class Hours: 4 lecture, 12 activity total

This course includes practical experience in reviewing self-defense techniques acquired in PE 36A. *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**

Dance/Creative Movement

PE 43A -- 1.5 Units

Tap Dance I

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†*

PE 43B -- 1.5 Units

Tap Dance II

Prerequisite: PE 43A 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†*

PE 46A -- 1.5 Units

Ballet I

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†*

PE 46B -- 1.5 Units

Ballet II

Prerequisite: PE 46A

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†*

PE 46C -- 1.5 Units

Ballet III

Prerequisite: PE 46B 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†*

PE 46D -- 2 Units

Ballet IV

Prerequisite: PE 46C 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†*

PE 47A -- 1.5 Units

Folk, Square, Ethnic Dance 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**

PE 47C -- 1.5 Units

Folk, Square, Ethnic Dance II

Prerequisite: PE 47A 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**

PE 48A -- 1.5 Units

Modern Dance I

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†*

PE 48B -- 1.5 Units

Modern Dance II

Prerequisite: PE 48A or equivalent

Class Hours: 1 lecture, 2 activity

This 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†*

PE 48C -- 2 Units

Modern Dance III

Prerequisite: PE 48B 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†*

PE 48D -- 2 Units

Modern Dance IV

Prerequisite: PE 48C 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†*

PE 49A -- 1.5 Units

Modern Jazz I

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*

PE 49B -- 1.5 Units

Modern Jazz II

Prerequisite: PE 49A 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†*

PE 49C -- 1.5 Units

Modern Jazz III

Prerequisite: PE 49B 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†*

PE 49D -- 2 Units

Modern Jazz IV

Prerequisite: PE 49C

Class Hours: 1 lecture, 3 activity

This is a continuation of Modern Jazz III with an emphasis on performance style and form as well as increased technical and choreographic skills. *Transfer credit: CSU; UC†*

PE 50A -- 1.5 Units

Improvisation I

Prerequisite: None. Concurrent enrollment in modern dance is recommended

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†*

PE 50B -- 1.5 Units

Improvisation II

Prerequisite: PE 50A 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†*

PE 50C -- 1.5 Units

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. Students will explore various stimulus situations with the ultimate aim at recreating and developing their initial spontaneous responses in the organic form of the dance. *Transfer credit: CSU; UC†*

PE 51A -- 1.5 Units

Dance Performance/Production I

Prerequisite: Beginning dance class; recommend 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†*

PE 51B -- 1.5 Units

Dance Performance/Production II

Prerequisite: PE 51A; recommend 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†*

PE 51C -- 1.5 Units

Dance Performance/Production III

Prerequisite: Beginning dance class or equivalent; concurrent enrollment in another dance class recommended

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 class is also concerned

with choreography, staging and the production elements of dance.
Transfer credit: CSU; UC†

PE 51D -- 2 Units

Dance Performance/Production IV

Prerequisite: Intermediate dance class; concurrent enrollment in dance class recommended

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†*

PE 52A -- 1.5 Units

Ballroom Dance 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**

PE 52B -- 1.5 Units

Ballroom Dance II

Prerequisite: PE 52A

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**

PE 53A -- 2 Units

Dance Composition and Choreography I

Prerequisite: PE 48B

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*

PE 53B -- 2 Units

Dance Composition and Choreography II

Prerequisite: Intermediate modern dance or equivalent

Class Hours: 1 lecture, 3 activity

This course continues 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*

PE 53C -- 2 Units

Dance Composition and Choreography III

Prerequisite: Intermediate modern dance or equivalent

Class Hours: 1 lecture, 3 activity

This course continues to explore more in depth 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*

PE 53D -- 2 Units

Dance Composition and Choreography IV

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*

PE 54 -- 3 Units

Children's Dance Theatre

Prerequisite: None. Recommend concurrent enrollment in dance technique class

Class Hours: 2 lecture, 4 activity

This class 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*

PE 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 repertory choreographed by students, faculty and/or outside guest choreographers. Students will perform in a formal concert. *Transfer credit: CSU; UC†*

Intercollegiate Athletics

PE 64A/B -- 3/3 Units

Soccer-Men - Year I/II

Prerequisite: Meet requirements for athletic eligibility in the Western State Conference

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. PE 64B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 65A/B -- 3/3 Units

Soccer-Women - Year I/II

Prerequisite: Meet requirements for eligibility as established by the WSC

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. PE 65B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 66A/B -- 3/3 Units

Baseball-Men - Year I/II

Prerequisite: Meet requirements for athletic eligibility in the Western State Conference

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. PE 66B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 67A/B -- 3/3 Units

Basketball-Men - Year I/II

Prerequisite: Meet requirements for athletic eligibility in the Western State Conference

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. PE 67B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 68A/B -- 3/3 Units

Basketball-Women - Year I/II

Prerequisite: Meet requirements for eligibility as established by the WSC

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. PE 68B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 69A/B -- 3/3 Units

Cross Country-Men - Year I/II

Prerequisite: Meet requirements for athletic eligibility in the Western State Conference

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. PE 69B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 70A/B -- 3/3 Units

Cross Country-Women - Year I/II

Prerequisite: Meet requirements for eligibility as established by the WSC

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. PE 70B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 71A/B -- 3/3 Units

Football-Men - Year I/II

Prerequisite: Meet requirements for athletic eligibility in the Western State Conference

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. PE 71B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 72A/B -- 3/3 Units

Golf - Year I/II

Prerequisite: Meet requirements for athletic eligibility in the Western State Conference

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. PE 72B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 73A/B -- 3/3 Units

Softball-Women - Year I/II

Prerequisite: Meet requirements for eligibility as established by the WSC

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. PE 73B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 74A/B -- 3/3 Units

Tennis-Men - Year I/II

Prerequisite: Meet requirements for athletic eligibility in the Western State Conference

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. PE 74B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 75A/B -- 3/3 Units

Tennis-Women - Year I/II

Prerequisite: Meet requirements for eligibility as established by the WSC

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. PE 75B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 76A/B -- 3/3 Units

Track-Men - Year I/II

Prerequisite: Meet requirements for athletic eligibility in the Western State Conference

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. PE 76B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 77A/B -- 3/3 Units

Track-Women - Year I/II

Prerequisite: Meet requirements for eligibility as established by the WSC

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. PE 77B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 78A/B -- 3/3 Units

Volleyball-Women - Year I/II

Prerequisite: Meet requirements for eligibility as established by the WSC

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. PE 78B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 79A/B -- 3/3 Units

Wrestling-Men - Year I/II

Prerequisite: Meet requirements for athletic eligibility in the Western State Conference

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. PE 79B may be taken two (2) times for credit. *Transfer credit: CSU; UC**

PE 80 -- 2 Units

Pep Squad

Class Hours: 7 activity

This course is for students interested in the Pep Squad. The course is designed to develop cheer leading skills through instruction in gymnastics and dance. May be taken four (4) times for credit. *Transfer credit: CSU*

Professional Activities

PE 90 -- 2 Units

Introduction to Physical Education

Class Hours: 2 lecture

This course is a general survey of the field of Physical Education, and exploration of the aims, objectives, scope and contemporary values of Physical Education. Projects and field work are required. *Transfer credit: CSU; UC*

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
Eugene Berg
Clinton Harper

Counselors
Mike Johnson
Mary Martin
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 Director. 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-bachelors degree necessary)

Laser Specialist	Biomedical Engineer
Seismologist	Plasma Physicist
Researcher	Fusion Engineer
Oceanographer	Nuclear Physicist
Geochemist	Physical Chemist
Weather Forecaster	Statistician
Astronomer	Chemical Physicist
Medical Technologist	

Faculty

Full-Time	Part-Time	Counselors
Balazs Becht	Philip Klutch	Edna Ingram
Clinton Harper	Youssef Kohanzadeh	Mary Martin
Fred Meyer	Russell Patera	Danita Redd Terry
	Melvin Pedinoff	
	Ronald Wallingford	

Transfer Information

Major requirements for upper-division standing at:

California State University, Northridge: Core courses: Chem 1A; Math 25A, 25B, 25C; Ph 20A/20AL, 20B/20BL, 20C/20CL. Physics option: Chem 1B; Math 35. Applied Physics: CS 10/10L; Engr 20/20L; Math 35. Astrophysics: Math 35.

University of California, Davis: Chem 1A, 1B; CS 18/18L; Math 25A, 25B, 25C, 31, 35; Ph 20A/20AL, 20B/20BL, 20C/20CL.

University of California, Santa Barbara: Chem 1A, 1B; Math 25A, 25B, 25C, 31, 35; Ph 20A/20AL, 20B/20BL, 20C/20CL.

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	4
Ph 20B/20BL . Electricity and Magnetism/Lab	4
Ph 20C/20CL . Wave Motion, Heat, Optics and Modern Physics/Lab	4

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 -- 42 - 47

Suggested Course Sequence:

Physics Option

First Semester	Third Semester
Chem 1A	Math 25C
Math 25A	Ph 20B/20BL
11	9

Second Semester	Fourth Semester
Chem 1B	Math 35
Math 25B	Ph 20C/20CL
Ph 20A/20AL	
15	7

Applied Physics Option

First Semester	Third Semester
Chem 1A	Engr 12
Math 25A	Math 25C
11	Ph 20B/20BL
	12

Second Semester	Fourth Semester
CS 10/10L.....	CS 18/18L
Math 25B	Math 35
Ph 20A/20AL	Ph 20C/20CL
13	11

Electro-Optics Option

First Semester	Third Semester
Chem 1A	ET 10.....
Math 25A	Math 25C
11	Math 31.....
	Ph 20B/20BL
	14

Second Semester	Fourth Semester
Chem 1B	Math 35.....
Math 25B	Ph 20C/20CL.....
Ph 20A/20AL	
15	7

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 and magnetism, light, atomic and nuclear physics, relativity and astrophysics. Ph 1 is particularly designed for the nonscience major. *Transfer credit: CSU; UC*

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 -- 3 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: 3 lecture

This course is an introduction to 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 -- 3 Units

General Physics II

Prerequisite: Ph 10A or equivalent college course

Class Hours: 3 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 noncalculus 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

Prerequisite: 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 -- 3 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: 3 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

Corequisites: 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 -- 3 Units

Electricity and Magnetism

Prerequisites: Math 25B and Ph 20A

Corequisite: Math 25C

Class Hours: 3 lecture

This course is an introduction to electricity and magnetism. Emphasis is placed on the understanding of field theory and applications of calculus. Topics include: electric and magnetic fields; Coulomb's Law; Gauss' Law; Faraday's Law; Amperes 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 active analog circuits and devices. *Transfer credit: CSU; UC credit limitations. See counselor.*

PH 20C -- 3 Units

Wave Motion, Heat, Optics and Modern Physics

Prerequisites: Math 25C and Ph 20B

Class Hours: 3 lecture

This course is an introduction to wave motion (sound and light), physical and isometrical 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 Director. 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	Teacher
Journalist	Attorney
Foreign Diplomat	Politician

Faculty

Full-Time	Part-Time	Counselors
Gerald Bridgeman	Luis Gomez	Mike Johnson
Robert Herman	Rodrigo Hernandez	Ofelia Romero-Motlagh
Jerry Straughan	Jack Miller	

Transfer Information

The major in political science provides training for those who plan a career in government service, intend to pursue the study of law or related disciplines, wish to prepare for work in journalism or writing, or wish to prepare for teaching or to work for advanced degrees.

Major requirements for upper-division standing at:

California State University, Northridge: Econ 1, 2; Hist 1A, 1B; Pol Sc 2 or 4, 3. See counselor for additional requirements.

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.

Political Science Courses

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

The 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*

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 politics, 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 negotiating 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; UC*

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 Director. 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	Recreation Specialist
Administrative Assistant	Social Worker
Urban Renewal Specialist	Family Counselor
Personnel Assistant	Mental Health Officer
Social Insurance Representative	Program Analyst
Veterans Claims Examiner	Sales Personnel
Rehabilitation Counselor	Advertising Executive
Social Service Analyst	School Psychologist
Employee Relations Specialist	Probation Officer
Employee Development Specialist	

Faculty

Full-Time	Part-Time	Counselors
Francis Bianchino	Charles Allen	Frank Bianchino
Judith Farrell	Christine Caruso	Mike Johnson
Carole Ginet	Deena Case	Lisa Raufman
Lynn Meschan	Michael Gardner	
Steven Pollock	Susan Kapitanoff	
Carol Woodward	Sally Ponce-O'Rourke	
	Carolyn Powell	
	Anthony Raptis	
	Darrel Richards	

Transfer Information

Major requirements for upper-division standing at:
California State University, Northridge: Math 15; Psych 1A, 1B.
California State University, Sacramento: Psych 1A, 1B.
University of California, Davis: Biol 2A or Biol 1 and Anth 1; Math 15; Psych 1A.
University of California, Santa Barbara: Math 15, 16A; Psych 1A, 1B. Select one science course from two of the following areas:
A) Biol 1, 2A, 16; B) Chem 1A, 12; C) An 1 or Phys 1; D) Ph 10A; E) CIS 4A or 4B, or CS 10 or 18.

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 -- 4 Units

Introduction to Psychobiology and Experimental Psychology

Prerequisite: Psych 1A

Class Hours: 4 lecture

This course is an introduction to psychobiological and experimental psychology emphasizing the scientific method, basic research de-

sign, 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, death 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 alternate 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

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. (co-numbered EATM 4)
Transfer credit: CSU

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 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 Director. 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 -- 1-3 Units

Topics in Psychology*

Prerequisites: To be determined with each Topic

Class Hours: To be determined with each Topic

This is a special series of courses 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 -- 1.5 Units

Research Seminar

Class Hours: 24 lecture total

An introduction to the principles and practices of experimental research within Psychology. Topics for analysis and discussion

focus both on the philosophy of science and research and on a hands-on exploration of various psychological phenomena.

*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

Account Executive	Advertising Copy Writer
Actor	Makeup Specialist/Artist
Anchor (News)	ITV Specialist
Announcer	Program Manager/Director
Assistant Director	Publicity/Promotion Assistant
Art Director	Public Relations Assistant
Audio/Video Engineer	Property Master/Grip
Camera Operator	Radio-Television Director
Executive Producer	Operations Manager
Floor Manager	Technical Director
Lighting Director	Traffic Director
Lighting Assistant	Research Specialist
Media-Librarian	Teleplay Writer
News Director	Videotape Editor
News Writer	Station Manager/General Manager
Reporter	Advertising Sales Director/Manager

Faculty

Full-Time	Part-Time	Counselors
Alfred Miller	Deanna Crowe	Donna Proske Allyn
Leslie Wieder	Ronald Husmann	Don Henderson
	Arthur Lopez	
	Alex Papp	
	Frank Roach	
	Richard Studebaker	
	Charles Whitten	
	Thomas Witt	

Transfer Information

Radio--Television--Film

Major requirements for upper-division standing at: California State University, Northridge: Hum 3 or 4; RT 1, (3A or 7A).

University of California, Los Angeles: Motion Picture/Television. All UCLA School of Theatre, Film and Television Breadth Requirements (or IGETC) to be completed prior to entry. Overall 3.0 or better. No more than 16 additional units of Theatre and Radio/Television courses.

Radio/Television

Occupational Associate in Science Degree

This program offers a varied curriculum that provides students with introductory knowledge of broadcasting. Emphasis is possible through introductory specialization in such fields as broadcast journalism, production techniques, advertising/sales management.

Required Courses:	Units
Hum 3..... History of the Motion Picture	3
or	
Hum 4..... Main Currents in Modern Film	3
RT 1..... Media and Society.....	3
RT 2..... Broadcast Studio Operation	3
RT 3A..... Television Production Workshop	3

RT 5..... Radio-Television Writing	3
RT 7A..... Radio Production Workshop	3
Required Additional Courses:	
Select nine (9) units from the following courses:	
Photo 1A..... Beginning Photography	3
RT 3B..... Television Directing and Editing	3
RT 7B..... Advanced Radio Production.....	3
RT 8..... Voice and Diction	3
RT 9..... Acting for Film and TV	3
RT 12..... Broadcast Journalism.....	3
RT 17..... Advanced Television Production.....	3
Total minimum units required in major area -- 27	

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

Radio/Television Courses

RT 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 implication of media. (co-numbered Journ 1) *Transfer credit: CSU; UC*

RT 2 -- 3 Units

Broadcast Studio Operation

Class Hours: 2 lecture, 3 laboratory

This class covers instruction in basic studio and control room equipment and operation. Students gain practical experience in the various aspects of production, explanation of program patterns, studio procedures, use of equipment and production of programs. *Transfer credit: CSU*

RT 3A -- 3 Units

Television Production Workshop

Prerequisite: RT 2

Class Hours: 2 lecture, 3 laboratory

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*

RT 3B -- 3 Units

Television Directing and Editing

Prerequisite: RT 3A

Class Hours: 2 lecture, 3 laboratory

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*

RT 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 Engl 5) *Transfer credit: CSU*

RT 7A -- 3 Units

Radio Production Workshop

Prerequisite: RT 1 or concurrent enrollment

Class Hours: 2 lecture, 3 laboratory

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*

Radiologic Technology

All Radiologic Technology courses are listed with the Health Science courses. Refer to that section alphabetically for full course information.

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. Studied also will be 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 17 -- 1-5 Units

Advanced Television Production

Prerequisite: RT 3A

Class Hours: 48-240 laboratory total

This is an advanced course in the production of a variety of television program categories. Some programs will be utilized by community media such as CATV public access systems. Course includes remote assignments and special projects. May be taken four (4) times for credit. *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 Director. 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*

Reading

Reading courses are provided to assist students to improve their basic abilities to function effectively in all classes.

Faculty

Full-Time	Part-Time	Counselor
Barbara Baker	Jeanette Hosek	Rick Cardoni
Michael Strumpf		

Reading Courses

READ 1 -- 3 Units

Basic Reading Skills

Prerequisite: Equivalent skills which may be measured by the college assessment process

Class Hours: 3 lecture

This course is designed for students with substantial reading problems as measured by both standardized and individualized tests. Through varied instructional approaches and the use of appropriate materials, students are helped to improve their comprehension and speed. Instructional activities and supporting materials will focus on study skills, vocabulary development, reading comprehension and speed, and the philosophy, psychology, and physiology of the reading process. Pre- and post-testing will measure progress and achievement. (College credit only. Does not apply toward a degree.)

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 3 -- 3 Units

Speed and Power Reading

Prerequisite: Satisfactory grade in Read 1, or equivalent skills which may be measured by the college assessment process

Class Hours: 3 lecture

This course teaches a wide variety of study skills, with the goal of enabling students to develop their total learning ability. Students will be taught strategies to improve reading comprehension and retention, to read at speeds appropriate to the material they are reading, to develop vocabulary awareness, to improve attitudes toward study (ranging from conquering procrastination to capitalizing on test-taking), to think critically, and to learn by visual, auditory, and kinesthetic means. (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.)

Real Estate

A career in Real Estate requires careful attention to state requirements and selection of courses that are designed to meet specific job goals in this field.

Career Opportunities

Real Estate Broker	Banker
Salesperson	Assessor
Property Appraiser	Escrow Officer

Faculty

Part-Time	Counselor
David Calhoun	Lisa Raufman
Thomas Hester	

Applicants for the Real Estate Salesperson Examination

- To qualify to take an examination for a real estate SALESPERSON license on and after January 1, 1986, an applicant must have completed the college-level course Real Estate Principles.
 - Those who must satisfy this new requirement must also, either prior to issuance of the original license or within eighteen months after issuance, complete two additional basic real estate courses selected from among the following:
 - Bus 1 Preparation for Accounting
 - Bus 33 Business Law
 - RE 3 Real Estate Economics
 - RE 5 Real Estate Practices
 - RE 7 Real Estate Finance
 - RE 9 Legal Aspects of Real Estate
 - RE 11 Real Estate Appraisal
- *Escrows
*Property Management
*Real Estate Office Administration
- *These courses are not offered by Moorpark College.

Real Estate Occupational Associate in Science Degree

This program is planned to fill the local demand for skilled real estate brokers. The courses are designed for students to meet the state requirements for licensing of and advancement to broker status.

Required Courses:	Units
Bus 2A..... Financial Accounting Principles I	3
RE 1..... Real Estate Principles.....	3
RE 3..... Real Estate Economics.....	3
RE 5..... Real Estate Practices	3
RE 7..... Real Estate Finance.....	3
RE 9..... Legal Aspects of Real Estate	3
RE 11..... Real Estate Appraisal	3
Total minimum units required in major area -- 21	

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

Real Estate Certificate of Achievement

This program is designed for students desiring immediate employment in the real estate business. It offers a full curriculum for training of brokers.

Required Courses:	Units
Bus 2A..... Financial Accounting Principles I	3

CIS 1	Intro to Information Systems.....	3
CIS 1L	CIS Introduction Lab	1
Esc 1	Course to be re-established	3
RE 1.....	Real Estate Principles.....	3
RE 3.....	Real Estate Economics.....	3
RE 5.....	Real Estate Practices	3
RE 7.....	Real Estate Finance.....	3
RE 9.....	Legal Aspects of Real Estate	3
RE 11.....	Real Estate Appraisal	3
Total minimum units required -- 28		

Real Estate Courses

RE 1 -- 3 Units

Real Estate Principles

Class Hours: 3 lecture

This course is a practical study of the California real estate industry designed to give the general public an overview of the Real Estate industry. It is also designed to supplement License Prep classes regarding the knowledge required of candidates for the California Real Estate Salespersons' and Brokers' examinations. Additionally, it is a prerequisite for most other Real Estate courses. The California Department of Real Estate requires proof of successful completion of RE 1 prior to taking the Real Estate Salespersons' license examinations. *Transfer credit: CSU*

RE 3 -- 3 Units

Real Estate Economics

Prerequisite: RE 1 or California Real Estate license or equivalent

Class Hours: 3 lecture

Students will study economic trends in real estate and land use, dynamic factors which create values in real estate and background for more specialized courses in real estate operation and techniques. *Transfer credit: CSU*

RE 5 -- 3 Units

Real Estate Practices

Prerequisite: RE 1 or California Real Estate license or equivalent

Class Hours: 3 lecture

This course covers techniques of operating a real estate business with emphasis on the daily activities of brokers and salespersons. Emphasis is placed on agency and disclosure requirements, on securing and qualifying prospects, obtaining listing, completing purchase contracts, and follow up through close of escrow. *Transfer credit: CSU*

RE 7 -- 3 Units

Real Estate Finance

Prerequisite: RE 1 or California Real Estate license or equivalent

Class Hours: 3 lecture

In this practical study and analysis of money markets, interest rates, and real estate financing, actual case illustrations demonstrating lending policies, problems and rules involved in financing real property are studied, including residential, multifamily, commercial, and special purpose properties. *Transfer credit: CSU*

RE 9 -- 3 Units

Legal Aspects of Real Estate

Prerequisite: RE 1 or California Real Estate license or equivalent

Class Hours: 3 lecture

This course is a practical study of California real estate law designed to assist real estate sales licensees and the public in avoiding the legal problems which arise in conjunction with real estate transactions; case study methods are utilized. *Transfer credit: CSU*

RE 11 -- 3 Units

Real Estate Appraisal

Prerequisite: RE 1 or California Real Estate license or equivalent

Class Hours: 3 lecture

This is a first course in real estate appraisal confined largely to residential property, with an introduction to investment property valuation. Also covered in this course are methods and techniques for determin-

ing value for loan and insurance purposes; case study situations and actual field work. *Transfer credit: CSU*

RE 14 -- 1.5 Units

Real Estate Salesperson License Preparation

Class Hours: 24 lecture total

This course is designed to prepare students for the California State Real Estate Salespersons examination. Emphasis is placed on the specific areas to be covered in the examination and students are provided with lesson summaries at each class session and a study book of sample questions for further review. Students should be aware that they must have successfully completed RE 1 (Real Estate Principles) prior to taking the Real Estate Salespersons License examination. (College credit only. Does not apply toward a degree.)

RE 22A/B -- 1-3/1-3 Units

Independent Studies in Real Estate

Prerequisite: A previous course in Real Estate

Class Hours: 1-3 tutorial

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

RE 89A-Z -- .5-3 Units

Institutes in Real Estate★

Class Hours: Variable

This course considers specialized topics in Real Estate which are not covered in detail in the general Real Estate course offerings. Examples of topics to be offered from time to time include: Current Changes in Real Estate Practices; Current Changes in Real Estate Law; Current Changes in Real Estate Finance and Taxation; Current Changes in Real Estate Appraisal; Current Changes in Land Use Planning; and Current Real Estate Sales and Promotion.

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.

Social Sciences

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.

■ 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: Units

AREA A: One three-unit course from each of the four discipline offerings:

Geography: 2, 3, 4, 7. 3

History: Any course offered, except 22 or the 60 series. 3

Philosophy: 1, 2, 3, 4, 6. 3

Political Science: 1, 2, Urban 1A. 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

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
Model 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	Part-Time	Counselors
Cynthia Barnett-Shelby	Karen Donahue	Mike Johnson
Carole Ginet		Ofelia Romero-Motlagh
Linda McDill		

Transfer Information

Sociologists study the groups, institutions, and societies which are formed by humans; the structure and behavior of such groups are analyzed to understand the influence of group activities on individual members and members influence on other members and other groups. The Sociology major is intended to provide undergraduate preparation leading to careers in law, social work, urban and environmental planning, public service, counseling, mental health, and many similar service professions.

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, 3; one course from: Hist 1A, 1B, 7A, 7B, 10, 15, 16.
University of California, Santa Barbara: Hist 7B; Math 15; Soc 1, 3, 5. Select two courses from the following: Anth 2; Econ 2; Env Sc 1; Geog 4; Hist 7A; Pol Sc 2, 3, 4, 10; Psych 1A. Select one course from: Anth 4; Ch St 1, 2, 4; Hist 3, 4; Soc 6.

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

Marriage and the Family

Class Hours: 3 lecture

This course explores the meaning and function of committed relationships and examines various aspects of marriage and the family. Sex role socialization, sexuality, the single life, the choice to marry, parenting, dual-career families, conflict in relationships, separation, divorce and remarriage are studied from a historical, cross cultural, sociological and individual perspective. *Transfer credit: CSU*

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

Minority Group Relations*

Class Hours: 3 lecture

This course is an application of sociological theory to the social processes which affect racial, ethnic, and sexual minorities in the United States. An analysis of the relationship between the functions of the institutions of the society and the problems of the minorities will be studied. *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 Director. 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

Class Hours: 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.

Spanish

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	Foreign-Exchange Trader
Diplomatic Office	Foreign Clerk
Tutor	Foreign Service Officer
Editor	

Faculty

Full-Time	Part-Time	Counselor
Grace Bodhaine	Victoria Albright	Ofelía Romero-Motlagh
Raquel Olivera	Maria Brack	
	Damiano Marano	
	David Pardess	
	Maria Pons	
	Renee Rosenberg	
	Eduard Thron	

Transfer Information

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.

University of California, Santa Barbara: Spn 1, 2, 3, 4.

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 II

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 of 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 develop the ability to read with greater ease by study and discussion in Spanish of 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 Director. 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.*

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

Full-Time	Part-Time	Counselors
Janet Andriese	Wendy Gordon	Donna Proske Allyn
Sherry D'Attile	Norma Letinsky	Rick Cardoni
Joanna Dillon	Stanton Lutton	
	Vera Thau	

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

Students will enhance their 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.)

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 multisensory 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 14 -- .5-1.5 Units

Computer-Aided Instruction/Learning Skills★

Prerequisite: Acceptance to the Learning Disabilities Program

Class Hours: 1.5-4.5 laboratory

This course provides the student with the opportunity to participate in an individualized computer-based program based on the student's identified learning needs. Programs are available in the areas of problem solving, reading skills, written language skills, basic math skills, spelling, advanced math skills, and computer literacy. 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 10A -- 3 Units

Beginning American Sign Language

Class Hours: 3 lecture

This is an introductory course to the American Sign Language which is the native language of deaf people. This course includes instruction of basic language structure, manual signs, finger spelling and grammar required for simple manual communication with deaf people. *Transfer credit: CSU; UC*

SP ED 10B -- 3 Units

Intermediate American Sign Language

Prerequisite: Sp Ed 10A or equivalent fluency demonstrated to class instructor

Class Hours: 3 lecture

This is an intermediate course of instruction in the American Sign Language with emphasis in the area of vocabulary, practice in receptive and expressive skills, and study of ASL idioms and syntax. *Transfer credit: CSU; UC*

SP ED 10C -- 3 Units

Advanced American Sign Language

Prerequisite: Sp Ed 10B or equivalent demonstrated fluency

Class Hours: 3 lecture

This is an advanced course of study of the American Sign Language for students interested in improving their fluency, vocabulary and communication skills. It is recommended for instructors of the deaf, interpreters, and those interested in working with deaf people. *Transfer credit: CSU; UC*

SP ED 20 -- 1.5 Units

Adapted Physical Education

Class Hours: 1 lecture, 2 activity

This is a special course designed to meet the needs of students who are unable to participate in regular physical education activity classes. Students will be classified by a physician as to the type of physical activity in which they may participate. Each student works on an individual program in terms of adapted exercise and recreational activities. 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 Director. 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 employee-employer 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	Linguist
Politician	Lecturer
Management Trainee	Sales
Speech Therapist	

Faculty

Full-Time	Part-Time	Counselor
Charlene Arnold	Marjorie Berg	Don Henderson
Stephen Doyle	Drew Lobenstein	
Rolland Petrello	John Matteson	
Richard Strong	Deirdre Wood	
James Wyman		

Transfer Information

For the lower-division requirements in the Speech major, students are advised to consult a counselor and the catalog of the four-year school to which they intend to transfer.

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.

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-per-

ception, listening skills, conflict resolution, and problem solving will be the main topics studied. *Transfer credit: CSU*

SPCH 5 -- 3 Units

Elementary Oral Interpretation

Prerequisite: Spch 1 or equivalent

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 issue policy analysis, evidence and proof, cross-examination considerations in oral argument. The course includes an examination of the types of debatable 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 practicum 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 Director. 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*

Theatre Arts

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

Actor/Actress	Sound Technician
Assistant Director	Production Assistant
Assistant Stage Manager	Stagehand
Stage Technician	Playwright
Lighting Technician	

Faculty

Full-Time	Part-Time	Counselors
Katherine Lewis	Abra Flores	Donna Proske Allyn
Leslie Wieder	Roy Howell	Don Henderson
	John Medici	

Transfer Information

Major requirements for upper-division standing at:
 California State University, Fresno: ThA 2A, 10, 20; (Acting) ThA 2B, 3; (General) ThA 2B or 3.
 California State University, Northridge: ThA 2A, 2B, 4A, 4B, 20, 23. Th 300 to be taken after transfer.

■ 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.

Required Courses:	Units
ThA 1..... Intro to the Theatre	3
ThA 2A..... Beginning Acting	3.5
ThA 2B..... Intermediate Acting	3.5
ThA 2C..... Advanced Acting I.....	3.5
ThA 3..... Voice and Diction	3
ThA 10..... Production and Performance.....	3-3
ThA 20..... Stagecrafts.....	3
ThA 24..... Theatrical Costume and Makeup.....	3
Total minimum units required in major area -- 28.5	
Recommended Courses: Engl 15AB, 17; Mus 13A; PE 48A; ThA 2D, 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.

Required Courses:	Units
ThA 1..... Intro to the Theatre	3
ThA 2A..... Beginning Acting	3.5
ThA 2B..... Intermediate Acting	3.5
ThA 10..... Production and Performance.....	3-3
ThA 15A..... Beginning Stage Direction.....	3
ThA 15B..... Intermediate Stage Direction.....	3
ThA 20..... Stagecrafts.....	3
Total minimum units required in major area -- 25	

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 8*

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 periods from early

Greek through the Italian Renaissance. This course is required of 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 Renaissance 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 camera, blocking, movement, rapid line learning, etc., as it pertains to film and TV, and as it varies from stage work. Studied also will be microphone 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/C/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-numbered 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 class which teaches the basic skills in all areas of performing arts production. *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 Director. 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 theories, equipment procedures, and theatrical effects for stage productions. 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 theatrical makeup. *Transfer credit: CSU; UC†*

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	Elected Official
Public Administration	Law Enforcement
City Manager	Urban Design and Redevelopment
Urban Economist	Substance Abuse Specialist
Recreation Specialist	Traffic Analyst
Urban Historian	Community Relations

Faculty

Full-Time	Counselor
Jerry Straughan	Ofelia Romero-Mottlagh

Transfer Information

Major requirements for upper-division standing at:
California State University, Northridge: Econ 1, 2; Urban 1A.
See also A.S. degree programs in Administration of Justice.

Urban Studies Courses

URBAN 1A -- 3 Units Contemporary Urban Issues

Class Hours: 3 lecture

This is an introductory course for students who are considering a career in public services. The course focuses on the variety of current issues related to the urban setting such as the ecological effect of urban growth, governmental structure and financing necessary to meet the public demand for government services, cooperation and conflict between federal, state and local governmental bodies, housing, education, law enforcement, racial conflict, land use and urban renewal. This course fulfills the state requirement for study of American Institutions. *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 Director. 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*

URBAN 89A-Z -- .5-3 Units Institutes in Urban Studies★

Prerequisite: Urban Service Personnel

Class Hours: Variable

A short term lecture-seminar series on specialized urban issues designed for Urban Studies Personnel. *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	Dr. Allan W. Jacobs
Vice President	Karen Boone
Members	Dr. Gregory P. Cole Timothy D. Hirschberg Pete E. Tafoya

District Administration

Chancellor	Dr. Thomas G. Lakin
Vice Chancellor, Administrative Services	Jeff Marsee
Associate Vice Chancellor, Human Resources	Jerry D. Pauley

Administration of the College

President	James W. Walker
-----------------	-----------------

Office of Administrative Services:

Vice President, Administrative Services	Ray Di Guilio
Director, Auxiliary Services	David Leyba
Director, Maintenance and Operations.....	Jim Ferguson

Office of Instructional Services:

Vice President, Instructional Services	A. Darlene Pacheco
Dean, General/Transfer Education	Rene G. Rodriguez
Dean, Vocational Education	Vicki Bortolussi
Director, Humanities Division	Sidney Adler
Director, Physical Education/ Health Education Division.....	Arthur J. Bettini
Director, Science/Mathematics/ Engineering Division.....	Floyd Martin
Director, Social Science Division.....	Arthur J. Bettini
Director, Business/Technology Division	Judith A. Gerhart
Director, Learning Resources.....	Edward F. Tennen

Office of Student Services:

Vice President, Student and Educational Services	Floyd D. Thionnet
Director, Student Services.....	Position Vacant
Director, Student Support Services	Position Vacant
Director, Athletics.....	John Keever

Organization of Departments and Programs

Coordinators

Child Care/Child Development	Linda A. Cravens
Extended Opportunity Program Services	Paul K. Pagson
Exotic Animal Training/Management	Gary L. Wilson
Learning Assistance Center	Patricia E. Dozen
Nursing Science	Brenda Shubert
Special Education	Janet M. Andriese
Student Health Services	Sharon L. Manakas

Department Heads

Behavioral Sciences.....	Steven J. Pollock
Business.....	Janice C. Feingold
Fine Arts.....	Frank V. Sardisco
History and Institutions	Robert Herman
Language and Literature	Richard Edwards
Life Sciences.....	Larry O. Miller
Mathematics.....	Jane M. Broadbooks
Performing Arts	James L. Wyman
Physical Education.....	MoDean McCullough
Physical Sciences	Richard Kurtik

Title IX Representative

Dr. A. Darlene Pacheco, Vice President, Instruction
Administration Building, #159, (805) 378-1403, Ext. 1403

504 Facilitator (Handicapped)

Janet M. Andriese
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) 378-1406, Ext. 1406

Full-Time Certificated Staff

*(Date) indicates year of employment at Moorpark College.
Faculty rank determined by
Moorpark College Academic Senate.*

Adler, Sidney (1968)

Director, 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.

Aiken, Kirk (1969)

Professor, Art
B.A., University of Southern California;
M.A., California State University, Los Angeles.

Aldana, Guadalupe del C. (1991)

Assistant 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.

Alfano, Kathleen A. (1989)

Professor, Counseling
B.S., Chestnut Hill College, Pennsylvania;
M.S., Purdue University, Indiana;
Ph.D., University of California, Los Angeles.

Allyn, Donna Proske (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;
Physical Therapy Degree, Children's Hospital
School of Physical Therapy, Los Angeles;
M.A., California State University, Northridge.

Arnold, Charlene (1986)

Professor, Speech
B.A., M.A., California State University, Northridge.

Baker, Barbara (1976)

Professor, English/Reading
B.A., San Diego State University;
M.A., California State University, Los Angeles.

Baker, John R. (1990)

Assistant Professor, Anthropology
B.A., Pepperdine University, Malibu;
Ph.D., Universitat Hamburg, Hamburg, West Germany.

Barker, Beverly J. (1989)

Professor, Mathematics
B.A., Pomona College;
M.S., California State University, Northridge.

Barnett-Shelby, Cynthia (1992)

Assistant 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/Physical Science
A.B., University of California, Los Angeles;
M.S., California State University, Long Beach;
Ph.D., University of California, Los Angeles.

Beron, Alberto (1971)

Professor, Mathematics
B.S., M.A., California State University, Los Angeles.

Bettini, Arthur J. (1967)

Director, Physical Education/Health Education
Division/Social Science Division
B.A., M.A., University of California, Los Angeles.

Bianchino, 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)

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., Mt. 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.

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. (1986)

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.
(Sabbatical, Spring 1995)

Collier, Shay (1972)

Professor, Business Information Systems
B.A., Cornell College, Iowa;
M.A.E., California Lutheran College.

Copsey, Cecile M. (1968)

Professor, History
B.A., University of California, Berkeley;
M.A., University of California, Los Angeles.

Cravens, Linda A. (1988)

Coordinator, Child Care/Child Development;
Assistant Professor, Child Development
B.A., University of California, Santa Barbara;
M.A., California State University, Northridge.

Croteau, Barbara A. (1992)

Assistant Professor, Business
B.S., Johnson & Wales University, Providence,
Rhode Island;
M.B.A., Providence College, Rhode Island.

D'Attili, Sherry (1990)

Associate Professor, Learning Disabilities
B.A., California State University, Northridge;
M.S., California Lutheran University.

Dale, Gillian M. (1988)

Professor, English
B.A., Mount Holyoke College, Maryland;
M.A., University of Southern California.

Davie, John (1971)

Professor, English/Humanities
B.A., M.A., University of California, Santa Barbara.

de la Peña, José F. (1988)

Professor, Counseling
A.A., Laredo Junior College, Laredo, Texas;
B.A., Texas A&M University, Kingsville, Texas;
M.A., San Jose State University.

Di Giulio, Ray (1993)

Vice President, Administrative Services
B.A., M.A., University of California, Berkeley.

Dillon, Bona L. (1989)

Associate Professor, Journalism
B.A., M.A., Ball State University, Muncie, Indiana.

Dillon, Joanna P. (1980)

Professor, Learning Disabilities
B.S., University of Illinois;
M.S., California Lutheran College.

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)

Department Head, Language and Literature;
Professor, English
A.B., 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.

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;
Assistant Professor, Business
B.A., University of California, Davis;
M.S., California State University, Northridge.

Fink, Kathryn E. (1981)

Professor, Mathematics
B.A., University of California, Santa Cruz;
M.A., University of Oregon.

Fontaine, Victor A. (1991)

Assistant 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)

Instructor, 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.
(Sabbatical, Spring 1995)

Gerhart, Judith A. (1991)

Director, Business/Technology Division
B.S., M.Ed., De Paul University, Illinois;
Ed.D., Nova University, Florida.

Ginet, Carole (1968)

Professor, Sociology/Humanities/Psychology
A.B., 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
Institute of Design, Chicago.

Gucciardo, Peter (1971)

Professor, Economics
A.B., 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.
(Sabbatical, 1994-95)

- Hamann, Janet M. (1993)**
Instructor/Curriculum/Instruction Specialist (75%), Title III
B.A., M.A., Ph.D., University of California, Los Angeles.
- Hanft, John (1967)**
Professor, English
B.A., University of California, Riverside;
M.A., California State University, Chico.
- Harper, Clint D. (1978)**
Professor, Engineering Technology/Physical
Science/Physics
B.S., M.S., California State University, Northridge;
A.M., Ph.D., University of Southern California.
- Harrington, G. David (1992)**
Assistant Professor, Administration of Justice
B.S., M.S., California State University, Los Angeles.
- Harris, Verle D. (1968)**
Professor, Drafting Technology
B.S.E., California State University, Long Beach.
- Henderson, Donald (1974)**
Professor, Counseling
B.A., Austin College;
M.S., California State University, Los Angeles.
- Herman, Robert (1968)**
Department Head, History and Institutions;
Professor, Political Science/Economics
B.A., M.A., University of California, Santa Barbara.
- Hilmer, Keith A. (1989)**
Professor, Mathematics
B.S., University of Northern Iowa;
M.S., University of Oregon.
- Hoffmans, Kimberly D. (1993)**
Instructor, Nursing Science
B.S.N., University of Texas, Austin;
M.S.N., Texas Woman's University, Houston.
- Hopkins, Ranford 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, Susan (1981)**
Professor, Counseling
A.B., M.A.T., Whittier College;
M.S., California Lutheran College.
(Sabbatical, 1994-95)
- Johnson, Michael (1989)**
Associate Professor, Counseling/Athletics
B.S.S.W., M.S.W., St. Louis University, St. Louis, Missouri.
- Kairschner, Anne J. (1989)**
Associate Professor, English/Humanities
B.A., University of California, Santa Cruz;
M.A., University of California, San Diego.
- Kay, David (1984)**
Professor, Computer Information Systems
B.A., M.S., California State University, Northridge.
- Keever, John (1969)**
Director, Athletics (Acting);
Professor, Physical Education
B.A., University of California, Santa Barbara;
M.A., California State University, Chico.
- Kessner, Dolly E. (1990)**
Associate Professor, Music
A.B., M.A., University of California, Los Angeles;
Ph.D., University of Southern California.
- Kurik, Richard (1971)**
Department Head, Physical Sciences;
Professor, Chemistry
B.S., California State College;
M.A., University of California, Santa Barbara.
- LaBarge, Mary L. (1983)**
Associate Librarian;
Professor, Mathematics
B.A., University of California, Santa Barbara;
M.L.S., University of Southern California.
- Lewis, Katherine (1975)**
Professor, Theatre Arts
B.A., M.A., University of California, Los Angeles;
Ph.D., University of California, Santa Barbara.
- Loiselle, Linda S. (1981)**
Professor, Nursing
B.S.N., University of Illinois Medical Center, Chicago;
M.S.N., California State University, Los Angeles.
(Sabbatical, 1994-95)
- Lopez, Diana (1970)**
Professor, English
A.A., Ventura College;
B.A., M.A., San Francisco State University;
Ed.D., Nova University, Florida.
- Lopez, Robert (1971)**
Professor, Archaeology/Anthropology
B.A., M.A., California State University, Northridge.
- Manakas, Sharon L. (1992)**
College Nurse;
Assistant Professor/Coordinator, Student Health
Services
A.S., Ventura Community College;
B.S., M.S., California State University, Dominguez Hills.
- Martin, Floyd (1967)**
Director, Science/Mathematics/Engineering Division
B.S., M.A., Arizona State University.
- Marx, Christine E. (1990)**
Professor, Art History
B.A., M.A., University of California, Santa Barbara.
- Matsuda, Stella S. (1980)**
Professor, Dance
B.S., University of California, Los Angeles;
M.A., California Lutheran College.
- McAdam, Thomas M. (1980)**
Professor, Biology/Anthropology/Zoology
B.A., California State University, Northridge;
M.S., California Polytechnic State University, San
Luis Obispo.
- McCullough, MoDean (1969)**
Department Head, Physical Education;
Professor, Physical Education
B.S., Jamestown College, North Dakota;
M.S., University of North Dakota.
- McDill, Linda (1986)**
Professor, Sociology
B.A., M.A., Pepperdine University.
- Menchaca, Olivia (1989)**
Professor/Project Coordinator, Title III
B.A., California State University, Northridge;
M.S., California Lutheran University.
- Mendoza, Gilbert R. (1973)**
Professor, Physical Education
B.A., California State University, Fresno;
M.A., California Polytechnic State University, San
Luis Obispo.
- Meschan, Lynn M. (1990)**
Assistant Professor, Psychology
A.A., City College, San Francisco;
B.A., M.A., California State University, Sonoma.
- Meyer, Harold F. (1969)**
Professor, Physics/Mathematics/Engineering
B.S., M.A., California State University, Long Beach.
- Miller, Alfred J. (1972)**
Professor, Radio/Television
A.B., University of North Carolina;
M.S., University of Illinois.
- Miller, Larry O. (1971)**
Department Head, Life Sciences;
Professor, Biology/Physiology
B.A., M.A., Ph.D., University of California, Santa
Barbara.
- Molnar, Charles D. (1968)**
Professor, Mathematics
B.S., Harvey Mudd College;
M.A., University of California, Riverside.
- Monteiro, Sergio Lara P. (1986)**
Professor, Electronics
B.S., Federal University, Rio de Janeiro;
M.S., University of Wyoming;
M.S., Ph.D., Washington State University.
- Moore, Jo Ann (1990)**
Professor, Radiologic Technology
A.S., Long Beach City College, Long Beach;
B.S., California State University, Long Beach.
- Moore, Linda (1968)**
Professor, Humanities
B.A., Purdue University;
M.A., California Lutheran College.
- Murphy, David K. (1969)**
Professor, Chemistry
B.S., University of California, Berkeley;
M.A., M.S. ECE, Ph.D., University of California,
Santa Barbara.
- Naseri, Muthena (1974)**
Professor, Environmental Science
B.S., Arkansas State University;
M.S., Kansas State University.
Ph.D., Columbia Pacific University, Mill Valley.
- Nordquist, Alwyn (1967)**
Professor, Physical Education
B.A., San Diego State University;
M.A., California State University, Long Beach.
- Noyes, Jack (1970)**
Professor, Art
B.S., M.A., University of Michigan.
- Ogden, Gary (1976)**
Professor, Biology/Botany
A.B., M.A., California State University, Fresno;
Ph.D., University of California, Santa Barbara.
- Olivera, Raquel Antonia (1992)**
Assistant Professor, Spanish
B.A., M.A., Ph.D., University of California, Santa Barbara.
- Pacheco, A. Darlene (1969)**
Vice President, Instructional Services
B.A., Colorado State University;
M.A., Ed.D., Northern Colorado State University.
- Pagson, Paul K. (1971)**
Professor/Coordinator,
Extended Opportunity Program Services
B.A., Loyola University, Los Angeles;
M.S., Mount St. Mary's College.
- Parker, Delbert M. (1969)**
Professor, Physical Education/Health Education
B.S., M.S., University of California, Los Angeles.
- Patterson, James (1974)**
Professor, Exotic Animal Training and Management
B.S., California State Polytechnic University, Pomona;
M.A., California Polytechnic State University, San
Luis Obispo.
- Peddie, James F. (1991)**
Assistant Professor, Exotic Animal Training/Management
D.V.M., Cornell University, Ithaca, New York.
- Petrello, Rolland C. (1991)**
Assistant Professor, Speech
A.A., Moorpark College;
B.S., Southern Utah State College, Cedar City;
M.A., Miami University, Oxford, Ohio.
- Phillips, Theodore D. (1990)**
Associate Professor, Graphic Design
B.S., Woodbury University, Los Angeles;
M.F.A., California College of Arts and Crafts,
Oakland, California.
- Pollock, Steven J. (1968)**
Department Head, Behavioral Sciences;
Professor, Psychology
B.A., Whitman College, Washington;
M.A., Ph.D., Claremont Graduate School, California.
- Pritchett, Paul Y. (1991)**
Instructor, Interior Design/Drafting Technology
B.A., University of W. Florida, Pensacola;
M.S., Florida State University, Tallahassee.
- Rahnamaie, Mahyad Z. (1988)**
Professor, Mathematics
B.S., Pahlavi University, Iran;
M.S., Ph.D., University of Southern California;
M.S., California State University, Northridge.
- Raufman, Cecilia (Lisa) (1976)**
Professor, Counseling
B.A., University of California, Los Angeles;
M.S., California State University, Los Angeles.

- Rees, Gary W. (1975)**
Professor, Geography
B.A., University of California, Los Angeles;
M.A., California State University, Northridge.
- Reynolds, Jack G. (1969)**
Professor, Anatomy/Anthropology/Biology
B.A., M.A., University of California, Berkeley.
- Ritchie, Deborah J. (1986)**
Professor, Mathematics
A.A., College of Sequoias;
B.S., M.A., California Polytechnic State University,
San Luis Obispo.
- Rode, Benjamin L. (1989)**
Professor, Mathematics
B.A., M.A., University of California, San Diego.
- Rodríguez, Rene G. (1992)**
Dean, General/Transfer Education
B.A., M.A., University of California, Santa Barbara.
- Romero-Motlagh, Ofelia (1989)**
Professor, Counseling/Bilingual
A.A., Moorpark College;
B.A., M.A., California State University, Northridge.
- Ross, Patricia A. (1991)**
Professor, English
A.A., Citrus College, Azusa, California;
B.A., Pomona College, Claremont;
M.A., Purdue University, West Lafayette, Indiana.
- Sanchez, Tomás (1991)**
Professor, History/Chicano Studies
B.A., California State University, Northridge;
M.A., University of California, Santa Barbara.
- Sardisco, Frank V. (1967)**
Department Head, Fine Arts;
Professor, Art
B.A., University of California, Los Angeles;
M.F.A., Otis Art Institute.
- Schaak, J. Fred (1981)**
Professor, Mathematics
B.S., University of California, Davis;
M.S., California State University, Northridge.
- Shargo, Eric S. (1992)**
Assistant Professor, Anatomy/Physiology/Biology
B.A., M.S., California State University, Northridge;
Ph.D., University of California, Los Angeles.
- Sheridan, Pamela (1969)**
Professor, English
B.A., M.A., University of California, Santa Barbara.
- Shindo, Kokki (1969)**
Professor, Mathematics
A.B., Ripon College, Wisconsin;
A.B., M.A., University of California, Los Angeles;
M.S., Western Washington State.
- Shubert, Brenda (1982)**
Professor/Coordinator, Nursing Science
B.S.N., Medical College of Georgia;
M.N., University of California, Los Angeles.
- Siegel, A. Howard (1967)**
Professor, Humanities/French/English
B.A., Queens College;
M.A., Kansas State University;
Ph.D., University of Southern California.
- Sims, Sydney (1989)**
Assistant Professor, English
B.A., University of California, Los Angeles;
M.A., University of Pennsylvania;
Ph.D., University of California, Berkeley.
- Smith, Mitchell L. (1972)**
Professor, Administration of Justice
B.A., M.A., San Diego State University.
- Song, James J. (1991)**
Assistant Professor, Music
B.A., M.A., University of Colorado, Boulder.
- Spraggins, M. Thomas (1974)**
Professor, Accounting/Business
B.S., California State University, Northridge;
M.S., Colorado State University;
M.A., California Lutheran College;
Certified Public Accountant.
- Stemen, James A. (1969)**
Professor, Music
B.A., Goshen College;
M.A., M.S.M., Southern Methodist University.
- Stephens, Robert T. (1968)**
Professor, Mathematics
B.S., Brigham Young University;
M.S., University of California, Riverside.
- Stewart, Nancy L. (1980)**
Professor, Physical Education/Health Education
B.A., California State University, Long Beach;
M.S., Wisconsin State University, LaCrosse.
- Stewart, Sexton (1974)**
Professor, Graphic Communications
B.S., Southern University, Louisiana;
M.A., San Francisco State University.
- Straughan, Jerry E. (1975)**
Professor, Political Science/Urban Studies
B.A., University of California, Los Angeles;
M.A., California Lutheran College.
- Strong, Richard (1971)**
Professor, Speech/Forensics
B.A., M.A., University of Redlands.
- Strumpf, Michael (1967)**
Professor, English/Reading
B.S., M.S., University of Southern California.
- Sukiennik, Diane (1974)**
Professor, Counseling
B.A., State University of New York, Albany;
M.A., Columbia University, New York;
Ed.D., Nova University, Florida.
- Szylewicz, Arthur (1986)**
Professor, Mathematics
B.A., M.A., University of California, Los Angeles.
- Tan, Shiow-Ling Sheila (1991)**
Assistant Professor, Computer Science
B.A., Tunghai University, Taichung, Taiwan;
M.Ed., M.A., M.S., University of California, Santa
Barbara.
- Tennen, Edward F. (1980)**
Director, Learning Resources
B.A., California State University, Long Beach;
M.A., M.S.L.S., University of Southern California;
Ed.D., Nova University, Florida.
- Terry, Danita Redd (1993)**
Instructor, Counseling
B.A., M.A., California Polytechnic State University,
San Luis Obispo.
- Thionnet, Floyd D. (1972)**
Vice President, Student and Educational Services
A.A., Bakersfield College;
B.S., University of Arizona;
M.S., California Polytechnic State University, San
Luis Obispo.
- Thompson, Joan (1974)**
Professor, Music
B.A., M.A., California State University, Northridge.
(Sabbatical, 1994-95)
- Thurston, Willard J. (1991)**
Assistant Professor, Physical Education
B.A., California Lutheran University;
M.A., Azusa Pacific University, California.
- Trevino, Manuel O. (1971)**
Professor, Physical Education
A.B., M.A., California State University, Chico.
- Trevino, Sandra Kay (1988)**
Librarian
A.A., Ventura College;
B.A., California State University, Chico;
M.L.S., University of Southern California.
- Tromello, Bonni S. (1992)**
Instructor, Nursing
B.S.N., M.S.N., California State University, Los
Angeles.
- Walker, James W. (1992)**
President
B.S., M.A., Loyola University, Los Angeles;
M.S., University of Notre Dame;
Ed.D., University of Southern California.
- Walters, J. Roger (1971)**
Professor, Mathematics
B.A., University of California, Los Angeles;
M.A., University of Oregon.
- Weinstein, David S. (1991)**
Professor, Mathematics
B.A., M.S., California State University, Northridge.
- Wieder, Les (1977)**
Professor, Theatre Arts/Radio/Television
B.A., M.A., California State University, Northridge.
- Wilson, Gary L. (1985)**
Professor/Coordinator, Exotic Animal Training and
Management
A.S., Moorpark College;
B.A., M.A., University of California, Santa Barbara.
- Wolff, Louis A. (1982)**
Professor, Computer Information Systems/Business
Information Systems
B.S., M.S., University of La Verne, Point Mugu.
- Woodward, Carol (1981)**
Professor, Psychology
B.A., M.A., California State University, Northridge;
Ph.D., University of Southern California.
(Sabbatical, 1994-95)
- Wygant, Grethe M. (1988)**
Professor, Mathematics
A.A., Santa Barbara City College;
B.A., M.A., University of California, Santa Barbara.
- Wyman, James L. (1974)**
Department Head, Performing Arts;
Professor, Business/Speech/Forensics
B.A., University of Redlands;
J.D., Loyola Law School, Los Angeles.
- Young, Kathleen (1974)**
Professor, Business/Information Systems
B.S., California State University, Long Beach;
M.A., California Lutheran College.

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.
Retired June, 1987.

Allen, Judith (1968)

Professor, English
A.B., Pennsylvania State University;
M.A., California State University, Sacramento;
M.L.S., Immaculate Heart College.
Retired July, 1993.

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.
Retired May, 1994.

Bassett, Estella M. (1967)

College Nurse, Health Education
R.N., Saint Mary's Hospital School of Nursing,
Rochester, New York;
M.S., State University College, Brockport, New York;
M.P.H., University of California, Los Angeles.
Retired June, 1974.

Bendat, William I. (1970)

Dean, Student Services
B.A., University of California, Los Angeles;
M.A., San Diego State University;
Ph.D., Nova University.
Retired July, 1992.

Black, Richard (1968)

Professor, English
B.A., M.A., University of California, Santa Barbara.
Retired May, 1991.

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.
Retired June, 1991.

Brisby, William L. (1969)

Exotic Animal Training and Management
B.S., Colorado State University;
M.S., University of Southern California.
Retired June, 1985.

Buckner, Kenneth (1968)

Professor, Sociology
B.S., M.A., University of Southern California.
Retired May, 1992.

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.
Retired May, 1993.

Deutsch, Dolores (1970)

Professor, Child Development
B.A., University of California;
M.A., California State University, Northridge.
Retired June, 1988.

Dodgen, William W. (1971)

Professor, Art
B.A., Drury College, Springfield, Missouri;
M.F.A., Wichita State University, Kansas.
Retired May, 1994.

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.
Retired July, 1992.

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.
Retired May, 1992.

Fink, Paul (1970)

Professor, Philosophy
B.A., Pennsylvania State University;
M.A., University of Rochester.
Retired May, 1992.

Fleming, Jack (1968)

Director, Continuing Education
B.A., California State University, Sacramento;
M.A., California Lutheran College.
Retired June, 1992.

Gayle, James R. (1967)

Vice President, Instructional Services
B.S., United States Naval Academy;
M.S., Purdue University.
Retired June, 1988.

Gilman, Richard E. (1967)

Biological Sciences
B.S., M.S., St. Mary's College, Winona, Minnesota;
M.S., University of Southern California.
Retired February, 1978.

Griffith, W. Randolph (1967)

History
B.A., University of California, Riverside;
M.A., University of California, Los Angeles.
Retired June, 1986.

Heydenreich, John (1971)

Professor, Counseling
B.S., University of Southern California;
M.S., California State University, Los Angeles.
Retired June, 1992.

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.
Retired May, 1992.

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.
Retired June, 1979.

Keyser, Marshall R. (1974)

Professor, Business
B.S., Shippensburg State College, Pennsylvania;
M.S., Ph.D., University of Pittsburgh, Pennsylvania.
Retired May, 1993.

Lloyd, Lawrence G. (1967)

Vice President, Administrative Services
A.B., M.A., University of Southern California.
Retired June, 1992.

Long, Alicia A. (1979)

Dean, General/Transfer Education
B.A., University of Minnesota;
M.A., California State University, Northridge.
Retired July, 1992.

Long, Knox T. (1968)

Professor, Counseling/History
B.A., University of California, Santa Barbara;
M.A., California State University, Los Angeles.
Retired May, 1992.

Lossner, Walter M. (1969)

Sociology
B.A., B.D., Concordia Seminary;
M.S., Los Angeles State College;
Ph.D., University of Southern California.
Retired June, 1977.

Matthews, Donald O. (1988)

Director, Business and Technology Division
A.A., Ventura College.
Retired July, 1992.

Mehr, Sheldon (1970)

Professor, Music
B.A., University of California, Los Angeles;
M.A., California State University, Los Angeles.
Retired June, 1991.

Miller, Robert W. (1967)

Professor, Chemistry/Environmental Science
A.B., Temple University;
M.S., University of Arizona.
Retired June, 1993.

Moore, Evelyn G. (1974)

College Nurse;
Professor/Coordinator, Student Health Services
R.N., Jefferson Medical College Hospital, Pennsylvania;
B.S., P.H.N., Catholic University of America,
Washington, D.C.;
M.A.E., California Lutheran College.
Retired May, 1992.

Pearson, Beverly J. (1967)

Professor, Spanish
B.A., University of Michigan;
M.A., University of California, Berkeley.
Retired May, 1992.

Sarnecky, Dorothy (1967)

Geology
B.A., University of Notre Dame;
M.S., Stanford University.
Retired June, 1979.

Schechter, Arthur J. (1980)

Professor, Biology/Chemistry
A.B., M.S., Ed.D., University of Southern California.
Retired May, 1992.

Scott, Delmore E. (1969)

Professor, Art
B.F.A., M.F.A., University of Southern California.
Retired June, 1988.

Slama, Michael M. (1966)

Director of Library Services
J.D., Charles University, Prague, Czechoslovakia;
M.A., University of Denver.
Retired February, 1980.

Stringer-Eilers, Pauline (1970)

Professor, Interior Design
B.S., Oklahoma State University;
M.S., California State University, Northridge;
Ed.D., Nova University, Florida.
Retired June, 1991.

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.
Retired May, 1992.

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 re-

ceived, 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 areas 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

The Ventura County Community College District subscribes to and promotes the principles and implementation of Equal Opportunity and Affirmative Action.

Pursuant to the provisions of Assembly Bill 803, the Governing Board has adopted a policy and procedure to ensure that its programs and activities are available to all persons without regard to ethnic group identification, religion, age, sex, color, or physical or mental disability. Both the policy and the procedure apply to students, employees, and applicants.

Inquiries regarding these laws and regulations, and the corresponding Board policies may be directed to the District Affirmative Action Officer, c/o District Office, 71 Day Road, Ventura, CA 93003, telephone 654-6413.

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 Act 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.
3. **Offensive Job/Educational Interference.**
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 Dean of Student 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 another student, the Counseling Office 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

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.

4. The accused person and/or representative may be present, as well as the aggrieved person and/or her/his representative. No other persons except scheduled single witnesses and the Grievance Committee members shall be present.
5. The person making the charge shall assume the burden of proof. The rule of confidentiality shall prevail at all stages of the hearing.
6. The committee shall judge the relevancy and weight of testimony and evidence. It shall make its findings on fact and limit investigation to the formal charge. It shall also make a recommendation for disposition of the charge to the college President. Actions in this procedure shall be completed within five working days.
7. The 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 recommendation. The President shall act within ten working days.
8. 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 through the District's Affirmative Action Officer; if he/she is still dissatisfied with the decision, an appeal may be made to the Governing Board who shall render the final decision.
9. Records of all proceedings will be maintained by the college President in accordance with rules of confidentiality and board/state/federal laws, rules, regulations and contracts. Insertion of information regarding a case in employee's personnel record will be made in compliance with board/state/federal laws, rules, regulations and contracts.

¹The nature of the College Grievance Committee is described fully under the main Student Grievance Policy.

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 Dis-

trict 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 comply 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 76062), 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 as follows:
Any posters, flyers or other materials which advertise instructional programs, student activities or any other events that can be 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. Orderly 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. certificated 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, General and Transfer Education 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 it to implement the purposes of these regulations. 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. Posters shall be attached to the tables.
 4. 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.

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. A 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 reason-

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

able 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 working days of receipt of the President's request (Section B.5.).
 - b. 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.
 - c. 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.
 - d. 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.
 - e. 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 Grievance Committee members shall be present.
 - f. The person making the charge shall assume the burden of proof. The rule of confidentiality shall prevail at all stages of the hearing.
 - g. The committee shall judge the relevancy and weight of testimony and evidence. It shall make its findings on fact and limit investigation to the formal charge. It shall also make a recommendation for disposition of the charge to the college President. Actions in this procedure shall be completed within five working days.
 - h. The 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:
 - (1) Concur with the committee's recommendation.
 - (2) Not concur with the committee's recommendation.
 - (3) Take alternative action.
 - (4) The college President shall state in writing the reasons for the action taken on the committee's recommendation. The President shall act within ten working days.
 - i. 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.
 - j. If he/she is still dissatisfied with the decision, an appeal may be made to the Governing Board who shall render the final decision.
 - k. Records of all proceedings shall be maintained by the college President in accordance with rules of confidentiality and board/state/federal laws, rules, regulations and contracts. Insertion of information regarding a case in employee's personnel records will only be made in compliance with board/state/federal laws, rules, regulations and contracts.

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 exclusion 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 time, 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. Forgery, alteration, or misuse of college documents, records or 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 college community, or a campus visitor.
8. Disorderly, lewd, indecent, or offensive conduct.
9. Obscene, libelous or slanderous 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, abuse, or any threat of force or violence directed toward any member of the college community or campus visitor engaged in authorized activities.
11. Use, possession, distribution of alcoholic beverages, narcotics, hallucinogenic drugs, marijuana, or other dangerous drugs, or presence on campus while under the influence of alcoholic beverages, narcotics, hallucinogenic drugs, marijuana, or other dangerous drugs, except as expressly permitted by law.
12. Possession, while on the college campus or at an 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 dirk, dagger, firearm (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 degree 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 a 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 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 students 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 preemptory 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 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, percodan)
 - 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, tulanol-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
1994-95 Nonresident Tuition Fee Charges and Refund Schedule

Units Enrolled	Tuition Charge	1st Week Refund		2nd Week Refund		3rd Week Refund		4th Week Refund
		Regular and Summer	Regular	Summer	Regular	Summer	**Regular Only	
0.5*	55.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
1.0*	110.00	60.00	60.00	55.00	55.00	27.50	27.50	27.50
1.5*	165.00	115.00	115.00	82.50	82.50	41.25	41.25	41.25
2.0*	220.00	170.00	165.00	110.00	110.00	55.00	55.00	55.00
2.5	275.00	225.00	206.25	137.50	137.50	68.75	68.75	68.75
3.0	330.00	280.00	247.50	165.00	165.00	82.50	82.50	82.50
3.5	385.00	335.00	288.75	192.50	192.50	96.25	96.25	96.25
4.0	440.00	390.00	330.00	220.00	220.00	110.00	110.00	110.00
4.5	495.00	445.00	371.25	247.50	247.50	123.75	123.75	123.75
5.0	550.00	500.00	412.50	275.00	275.00	137.50	137.50	137.50
5.5	605.00	555.00	453.75	302.50	302.50	151.25	151.25	151.25
6.0	660.00	610.00	495.00	330.00	330.00	165.00	165.00	165.00
6.5	715.00	665.00	536.25	357.50	357.50	178.75	178.75	178.75
7.0	770.00	720.00	577.50	385.00	385.00	192.50	192.50	192.50
7.5	825.00	775.00	618.75	412.50	412.50	206.25	206.25	206.25
8.0	880.00	830.00	660.00	440.00	440.00	220.00	220.00	220.00
8.5	935.00	885.00	701.25	467.50	467.50	233.75	233.75	233.75
9.0	990.00	940.00	742.50	495.00	495.00	247.50	247.50	247.50
9.5	1,045.00	995.00	783.75	522.50	522.50	261.25	261.25	261.25
10.0	1,100.00	1,050.00	825.00	550.00	550.00	275.00	275.00	275.00
10.5	1,155.00	1,105.00	866.25	577.50	577.50	288.75	288.75	288.75
11.0	1,210.00	1,160.00	907.50	605.00	605.00	302.50	302.50	302.50
11.5	1,265.00	1,215.00	948.75	632.50	632.50	316.25	316.25	316.25
12.0	1,320.00	1,270.00	990.00	660.00	660.00	330.00	330.00	330.00
12.5	1,375.00	1,325.00	1,031.25	687.50	687.50	343.75	343.75	343.75
13.0	1,430.00	1,380.00	1,072.50	715.00	715.00	357.50	357.50	357.50
13.5	1,485.00	1,535.00	1,113.75	742.50	742.50	371.25	371.25	371.25
14.0	1,540.00	1,490.00	1,155.00	770.00	770.00	385.00	385.00	385.00
14.5	1,595.00	1,545.00	1,196.25	797.50	797.50	398.75	398.75	398.75
15.0	1,650.00	1,600.00	1,237.50	825.00	825.00	412.50	412.50	412.50
15.5	1,705.00	1,655.00	1,278.75	852.50	852.50	426.25	426.25	426.25
16.0	1,760.00	1,710.00	1,320.00	880.00	880.00	440.00	440.00	440.00
16.5	1,815.00	1,765.00	1,361.25	907.50	907.50	453.75	453.75	453.75
17.0	1,870.00	1,820.00	1,402.50	935.00	935.00	467.50	467.50	467.50
17.5	1,925.00	1,875.00	1,443.75	962.50	962.50	481.25	481.25	481.25
18.0	1,980.00	1,930.00	1,485.00	990.00	990.00	495.00	495.00	495.00
18.5	2,035.00	1,985.00	1,526.25	1,017.50	1,017.50	508.75	508.75	508.75
19.0	2,090.00	2,040.00	1,567.50	1,045.00	1,045.00	522.50	522.50	522.50
19.5	2,145.00	2,095.00	1,608.75	1,072.50	1,072.50	536.25	536.25	536.25
20.0	2,200.00	2,150.00	1,650.00	1,100.00	1,100.00	550.00	550.00	550.00
20.5	2,255.00	2,205.00	1,691.25	1,127.50	1,127.50	563.75	563.75	563.75
21.0	2,310.00	2,260.00	1,732.50	1,155.00	1,155.00	577.50	577.50	577.50
21.5	2,365.00	2,315.00	1,773.75	1,182.50	1,182.50	591.25	591.25	591.25
22.0	2,420.00	2,370.00	1,815.00	1,210.00	1,210.00	605.00	605.00	605.00
		\$50 Admin. Fee Charge		\$50 Admin. Fee Charge		\$50 Admin. Fee Charge		\$50 Admin. Fee Charge
			75% Refund	50% Refund	50% Refund	25% Refund		25% Refund

*Indicates that a minimum administrative fee of \$50 is deducted from those refunds.

**No refunds permissible after the 3rd week of summer session.

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