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# General Information

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COLLEGE CALENDAR

FALL SEMESTER, 1999
August 16 - December 15, 1999

FALL 1999
REGISTRATION See Schedule of Classes.
August 16 First day of instruction.
First day of late registration.
August 27 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. No refunds or credits after this date.
September 6 Labor Day - legal holiday.
September 10 Last date to drop semester-length classes without a transcript entry.
September 21 Last date to declare Credit/No Credit grading option for semester-length classes.
November 12 Veterans Day - legal holiday.
November 19 Last date to drop semester-length classes with a "W" grade.
Last day to apply for Fall 1999 Associate Degree or Certificate of Achievement.
November 25 & 26 Thanksgiving vacation.

SPRING 2000
REGISTRATION See Schedule of Classes.
December 9-15 Final examinations, Fall semester.
December 15 End of Fall semester.

SPRING SEMESTER, 2000
January 12 - May 17, 2000

January 12 First day of instruction.
First day of late registration.
January 17 Martin Luther King's Birthday - Legal Holiday.
January 26 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. No refunds or credits after this date.
February 4 Last date to drop semester-length classes without a transcript entry.
February 18 & 21 Presidents' Days - legal holidays.
February 17 Last date to declare Credit/No Credit grading option for semester-length classes.
March 31 Last day to apply for Spring 1999 Associate Degree or Certificate of Achievement.
April 14 Last date to drop semester-length classes with a "W" grade.
April 17-21 Spring Break.
SUMMER SESSION
REGISTRATION See Schedule of Classes.
May 11 - 17 Final examinations, Spring semester
May 17 Graduation.
End of Spring semester.

Summer Session, 2000

Please consult the Summer Session Class Schedule for beginning and ending dates of specific classes. A registration calendar and deadline dates for Summer will also be found in the Class Schedule.
VISION AND MISSION

Vision Statement
At Moorpark College we encourage quality and believe our strengths have been and will continue to be people - their flexibility, responsiveness, and willingness to meet the needs of students. It is our belief that we must continue to build on these strengths to provide an educational experience that is appropriate to the students' needs and within the college's mission.

Specifically, we believe that:

- Whatever services, programs, and opportunities we provide for students, they will be the best.
- Creativity and innovation should be encouraged and we will not be afraid to try new ideas and new things.
- All students attending Moorpark College will receive necessary support to meet their individual educational goals.
- Students who wish to transfer to four-year institutions will be provided with up-to-date and accurate information to facilitate transfer.
- We should increase our responsiveness to business and industry in changing economic climates.
- The College should be perceived as an integral part of the community it serves.
- Shared governance will become an accepted part of our decision-making process.
- We should be striving to build greater trust, understanding, and cooperation between the other segments of the Ventura County Community College District and Moorpark College.

Mission Statement
As a public community college, Moorpark College is devoted to the democratic ideal of making higher education accessible to all. Accordingly, Moorpark College is committed to providing a dynamic learning environment and to achieving student equity by providing a campus climate conducive to student success. Recognizing the diverse backgrounds, needs and goals of its students, Moorpark College is committed to preparing students for citizenship in a free society and for meeting the challenges of technological and socio-economic change.

Moorpark College is committed to providing affordable programs and services to the community. This responsibility is shared by the faculty, staff, administrators, and students as they interact with business, industry, government, and other educational institutions.

Moorpark College is committed to provide:

- An introduction to the broad areas of human knowledge and understanding by providing appropriate learning environments.
- Curriculum and services that support entry into the baccalaureate program of their choice.
- The training needed for entry into career as well as retraining and skills improvement.
- Support services to promote opportunities for success.
- Transitional courses needed for additional development before entry into transfer, occupational, or general education programs.
- The skills of critical thinking, writing, speaking, listening, and computing.
- Courses to increase awareness and respect for diversity.
- Extracurricular activities that encourage involvement in the campus community, develop leadership skills, and support special interests.
INTRODUCTION

History
The Governing Board of the Ventura County Community College District legally established Moorpark College in 1963. Soon after, a 134-acre site on Moorpark’s eastern city boundary was secured in a combination donation/purchase from the Strathmores, a local ranching family.

In 1965, taxpayers passed an $8 million bond to build the first phase of the district’s second community college. Construction of the Administration, Library, Science, Technology, Campus Center, Gymnasium and Maintenance buildings began in 1966. With the paint barely dry and remnants of construction rubble still evident, Moorpark College opened on September 11, 1967. The college’s first president, Dr. John Collins, greeted nearly 1,400 students and 50 new faculty members on that day.

Enrollment doubled in the first few years as the college added vocational education to its role of preparing students for transfer to four-year schools. Dr. Robert Lombardi became the college’s second president in 1971. Dr. Ray Hearon was the longest serving president, from 1974-1989.

The Moorpark College Foundation was formed in 1980 to spearhead construction of an athletic stadium, amphitheater and observatory. In 1985, the 4,000-seat stadium was named for Paul Griffin, Jr., a local developer and major benefactor. In 1987, the Carlsberg Amphitheater and Charles Temple Observatory were dedicated as part of the college’s 20th anniversary celebration. Once again the buildings were named for benefactors, the amphitheater for a development company and the observatory for a private citizen.

During the 1980s, several new buildings went up: Applied Arts, Creative Arts, Humanities/Science, Music, and Student Services.

Dr. Stanley Bowers served as president from 1989-1991, followed by Roger Boedecker, who served from 1991-1992. Dr. James Walker became president in 1992, but was called away to serve as interim chancellor in 1995. Dr. Darlene Pacheco served as interim president during Walker’s absence from 1995-96.

Fiscal constraint, brought about by the state’s economic downturn, stalled growth at the college in the early 1990s. Despite hard times, college officials were able to complete a new Communications Building in 1991 and a Performing Arts Center in 1995. Co-curricular programs were strengthened throughout the 1990s. The forensics team maintained national ranking while the athletic teams continued to dominate the Western State Conference.

In 1997, construction began on a new Math/Science Building. The Child Development Center was expanded and the Disabled Student’s program, which serves 600 students each semester, was relocated to an upgraded facility. Computer labs are sprouting up around campus and all buildings have been retrofitted with fiber-optic cabling. The college website is visited by thousands of students per year.

Transfer statistics boast that virtually no local community college does a better job of preparing students for the university than Moorpark College.

Now serving more than 13,000 students per semester, Moorpark College has become one of the top community colleges in the nation. Moorpark College graduates are making meaningful contributions to both the public and private sectors in Ventura County, the state and the nation.

1998 - The Year in Review

January - History Professor Daniel Patrick Brown was honored as 1997-98 “Distinguished Faculty Chair.”

February - The Nursing Program’s accreditation was renewed with no suggestions for improvement.

March - A $180,000 acoustic shell was installed on the Main Stage of the Performing Arts Center.

April - The Math/Science/Engineering Association was honored by the State Chancellor as one of the most successful student groups in the state.

May - The Accounting Department of the State University at Northridge released a study showing that transfer students from Moorpark College ranked highest in its program.

June - Forensics Professor James Wyman received the California Community College Forensics Association President’s Award.

July - Two conference rooms were built in the Campus Center.

August - The Child Development Center was accredited by the National Association of the Education of Young Children, a prestigious designation granted to only five percent of all pre-schools in the U.S.

September - The first annual Gilbert and Sullivan festival in Simi Valley was dedicated to Musical Theater Professor Marilyn Anderson.

October - Moorpark College employees pledged $10,000 to United Way.

November - America’s Teaching Zoo announced its female lion was named Savannah by the Boys and Girls Club of America.

December - The Moorpark College Foundation announced three new members joined the Board.
FOR YOUR INFORMATION

STUDENT DATA - FALL 1998

<table>
<thead>
<tr>
<th>Enrollment</th>
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<tbody>
<tr>
<td>Full-time</td>
<td>8,257</td>
</tr>
<tr>
<td>Part-time</td>
<td>4,608</td>
</tr>
<tr>
<td>Male</td>
<td>5,741</td>
</tr>
<tr>
<td>Female</td>
<td>7,124</td>
</tr>
<tr>
<td>TOTAL</td>
<td>12,868</td>
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</tbody>
</table>

Student Age:
- Under 20: 16.1%
- 20-24: 45.5%
- 25-29: 11.7%
- 30-39: 13.0%
- 40-49: 9.3%
- Over 50: 5.4%

Ethnicity:
- Asian: 7.1%
- Black: 1.7%
- Filipino: 1.4%
- Hispanic: 13.4%
- Native American: 1.2%
- Other: 1.5%
- Pacific Island: 0.4%
- White: 64.4%
- Unreported: 8.6%

FINANCIAL AID

DEGREES 1997/1998
- Associate Degrees Awarded: 969

INTERNATIONAL STUDENT DATA FALL 1998
- Students enrolled: 253
- Countries Represented:
  - Bolivia, Bulgaria, Cambodia, Canada, Colombia, Denmark, Ecuador, England, Fiji, Finland, France, Germany, Holland, Hungary, India, Indonesia, Iran, Japan, Korea, Lebanon, Malaysia, Mexico, Peru, Philippines, Russia, Sweden, Taiwan, Thailand, Turkey, Vietnam.

FACULTY

<table>
<thead>
<tr>
<th>Full-Time</th>
<th>160</th>
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<tbody>
<tr>
<td>Full-Time with Doctorates</td>
<td>37</td>
</tr>
<tr>
<td>Part-Time Faculty</td>
<td>370</td>
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</table>

DISTINGUISHED FACULTY CHAIR - 1998-99
Professor James Stemen

Teresa Resto,
Re-Entry Student
As a returning adult student, I chose Moorpark College to gain skills to begin a career in Microcomputer Applications. Each of the classes I took involved hands-on computer experience that was very beneficial. My thanks and appreciation to all at Moorpark College for aiding me in becoming skilled for the future.

Ryan Gessel,
Transfer Student
Moorpark College has great teachers; teachers who work with you on a personal level. Moorpark College offers a great general education, at an affordable price.

Jaime Guevara,
VP Associated Students
Thanks to the ESL program at Moorpark College I was able to begin my college career even though I could not speak English. Now I'm a Math/Engineering major planning to transfer to a university to become a civil engineer.

Catalogs are printed once per year and are available at the Moorpark College bookstore. To mail order copies of the catalog send a check for $6.00 each to Auxiliary Services, Moorpark College, 7075 Campus Road, Moorpark, CA 93021.

Schedules are printed each semester and are available on-campus and at public libraries.

Each schedule and catalog is also posted on the college's website at www.moorpark.cc.ca.us.
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<td>Special Student Admissions</td>
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<tr>
<td>Fees</td>
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</tbody>
</table>
Eligibility
Admission to Moorpark College is open to any high school graduate, anyone possessing a high school proficiency certificate, or any adult eighteen years of age or older and capable of profiting from instruction.

Moorpark College offers specialized programs in Exotic Animal Training/Management, Nursing, Health Information Technology and Radiologic Technology, which require special admissions procedures. For further information refer to the Announcement of Courses.

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 IX.

Additional information regarding residence requirements may be found below or by contacting Admissions and Records at (805) 378-1429.

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 IX.

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. International students (F-1 visa) and holders of nonimmigrant visas (B, C, D, F, H, I, 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.

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 at (805) 378-1429.

An application for admission is included in the back of this catalog. Additional copies can be obtained at the Office of Admissions or by writing to Moorpark College Public Relations, 7075 Campus Road, Moorpark, CA 93021. The application for admission is also in the Schedule of Classes and on our web site at (www.moorpark.cc.ca.us).

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

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 each semester. The Schedule of Classes also contains the calendar of registration dates.

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

Students receive credit for classes attended only if officially enrolled.

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. Are a veteran claiming benefits or a veteran planning to apply for veteran’s benefits (see “special note” below).

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.
SPECIAL STUDENT ADMISSIONS

High School Student Admission
In accordance with the California Education Code, high school juniors and seniors are permitted to enroll in college courses as Special High School Admission students. Enrollment fees are waived for Special High School Admission students. All other fees apply.

In order to qualify and register for Special High School Admission, students must have the written permission of a parent (or guardian) and their high school principal or counselor.

Moorpark College grants college credit only.

International Student Admission
An international student is anyone enrolled for courses in the United States who is neither a permanent resident nor a citizen of the United States. Most international students who intend to study full time in the United States will have an F-1 visa. Persons holding immigration visas should report to the International Students Office to determine their eligibility for enrollment to the college. Call: (805) 378-1414.

Admission Requirements (F-1 visa student only)
Prior to admission, international students must submit the following documents for evaluation to the International Student Specialist:

1. $50 Application Processing Fee;
2. Personal letter indicating why you wish to attend Moorpark College;
3. Completed Moorpark College Application;
4. Translated transcripts from any secondary/postsecondary schools;
5. Letter of Recommendation from an official at a previous school;
6. Transfer form (only if student is transferring from a school in the U.S.);
7. Demonstrat proficiency in the English language (TOEFL score of 450 or higher is recommended or completion of Level 109 at any ELS Language Center will satisfy the English language requirement for admission);
8. Completed Foreign Student Information Application;
9. Completed Foreign Student Agreement; and

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

1. Completed Health Statement/Tuberculosis skin test (Mantoux);
2. Proof of major medical insurance coverage, (insurance may be purchased 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

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

Veterans
The programs of Moorpark College are approved for veterans educational benefits. Please contact the Veterans Benefit Specialist located in the Administration Building or at (805) 378-1400, ext. 1852.
STUDENT FEES

Enrollment Fee (mandatory) $11 per unit

Nonresident Tuition (In addition to enrollment fee)
Out of State $117 per unit
International Students $111 per unit
(International Student Capital Outlay Surcharge $14 per unit)

Health Fee (mandatory) $11 per Sem./$8 per Sum.

Parking Fee
A daily or long term parking permit is required in all lots on campus.
"One-Day Use Permits" are $1.00. These permits 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 machines located on the main
driveways of the campus.
Semester Fee, Automobile $30.00
Semester Fee, Motorcycle $21.00
Classes meeting 6-11 weeks, Auto $12.00
Classes meeting 6-11 weeks, Motorcycle $9.00
Classes meeting 1-5 weeks, Auto $6.00
Classes meeting 1-5 weeks, Motorcycle
Second Vehicle Permit (requires presentation of vehicle registration) $11.00
Replacement Permit (requires proof that original
permit was purchased) $7.00
Combination of two permits (not less than) $15.00
Carpool permit $25.00 per Sem./$10 per. Summer

Students who receive financial assistance pursuant to any of the pro-
grams described in subsection (g) of Education Code Section 72522 shall
be exempt from parking fees in excess of $20 per semester. CITATIONS
WILL BE ISSUED FOR VEHICLES WITHOUT A VALID PERMIT.

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

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

Transcript Fee
Two official transcripts are furnished to each student free of charge. A
$3.00 fee is charged for each additional transcript. Normal processing
time is 7-10 working days but may be longer at the end of the semester.
All requests for transcripts must be in writing and include the student's
signature. Rush transcripts are provided 24 hours after submission of a
signed student request. A $5.00 per transcript rush processing fee is
charged.

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

Payment of Fees
All mandatory fees are due at registration. Students are not dropped from
classes for nonpayment of fees. Nonpayment of fees will prevent access
to services the student may require, such as transcripts or verification of
enrollment. Financial aid may be available to students who need help
paying their fees. Contact the Financial Aid Office for details.

Outstanding Obligations
Registration, transcript, and enrollment verification services are denied
to students who have outstanding obligations, such as returned checks,
library fines, overdue financial aid loans or unreturned athletic equip-
ment. Students who have received a Federal Family Education Loan are
obligated to an exit interview.

Enrollment and Parking Refunds/Credits
Applications for refund of fees may be made through the end of the class
adjustment period as stated in the Schedule of Classes. Enrollment fees
will be refunded minus a $10.00 administrative fee. Applications for ref-
unds are available in the Records Office or 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 with-
draw from school by the refund deadline will have their account cred-
ited. Students who do not request a refund may use the credit toward a
future fee. A credit balance may not be used to buy books or supplies.

Students unable to come to campus to file a refund application 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 and International Student
Refunds
Eligibility and amount of these refunds are determined by the date the
student officially applies for a refund through the Office of Admissions
and Records.

No refunds shall be authorized beyond the third week of summer session
or beyond the fourth week of the regular semester.

Refunds are based on the table of refunds which appears in Appendix IX.
The refund will be made by check from the District Administrative Ser-
vice within a reasonable time following official notification.

The following schedule of refunds will be in effect for nonresident stu-
dents who withdraw from college:

Fall or Spring Semester
1st week ................................................. 100% of Tuition
2nd week ................................................. 75% of Tuition
3rd week ................................................. 50% of Tuition
4th week ................................................. 25% of Tuition

Summer Session
1st week ................................................. 100% of Tuition
2nd week ................................................. 50% of Tuition
3rd week ................................................. 25% of Tuition
International students please see Appendix X.
STUDENT SERVICES

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MATRICULATION

The primary goal of Matriculation is to help each student achieve academic success. To accomplish this goal, the college and the student must work together to generate a Student Educational Plan and to define the various processes and activities that will lead to academic success. This basic agreement includes responsibilities for both the college and the individual student.

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. See page 8.
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. See page 16.
3. Providing an orientation process designed to acquaint students with college programs, services, facilities and grounds, academic expectations, and college policies and procedures. See orientation information below.
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. See page 13.
5. Establishing a process to monitor a student’s progress and provide necessary assistance toward meeting educational goals. See Early Alert on this page and Probation Policies on page 189.
6. Providing students with or directing them to written district procedures for challenging matriculation regulatory provisions. See Matriculation Exemption Policy below.

Student Responsibilities:
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 goals.
6. Attending all classes and completing all course assignments.
7. Completing courses and maintaining progress toward stated educational goals.

Matriculation Exemption Policy
The Ventura County Community College District (VCCCD) encourages all students who apply to fully participate in each college’s matriculation program. At a minimum, each student must participate in the admissions and the follow-up components of matriculation. A student, however, may be exempt from the assessment, orientation, and/or counseling/advisement component of matriculation if one or more exemption criteria are met.

Exemption Criteria for Assessment, Orientation & Counseling/Advisement:
1. A student who holds an associate (or higher) degree from a regionally accredited institution.
2. A student who has completed fewer than 15 units and whose educational goal is either:
   a) To advance in current job/career (update job skills)
   b) To maintain a certificate or license (e.g., nursing or real estate)
   c) To pursue educational development (intellectual or cultural)
3. A student who is concurrently enrolled at two or more of the VCCCD campuses only needs to receive the matriculation services at one of the colleges; to be exempt from the testing portion of assessment, appropriate scores from a recently taken VCCCD-approved assessment instrument must be provided.

Filing Exemption Status:
A student who wants to decline or postpone one of the matriculation components must complete a Matriculation Verification Form. These forms can be found in the Counseling Office (Administration Building). Questions regarding matriculation, student education plans and exemption criteria can be answered by any counselor or matriculation specialist on campus.

Orientation
Orientation provides basic information regarding Moorpark College’s services and programs as well as students’ rights and responsibilities. Students also learn about transfer and degree requirements, vocational programs and student services. Other topics include:
- Placement advice
- Academic expectations
- Moorpark College’s facilities
- Investigation and resolution of student complaints/problems
- Tips on achieving academic success

Early Alert
Early in each semester students who are having academic difficulty are notified so the students may confer with their instructor and receive additional assistance or direction.

Other services inform and direct students who may be on academic probation to appropriate services and assistance programs.
COUNSELING AND GUIDANCE

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) assistance in ensuring 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) assistance in interpreting assessment tests 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. Call: (805) 378-1428.

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 select appropriate classes. It is their concern to keep abreast of any changes that may affect completion of majors, general education and/or transfer requirements.

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

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

Students may arrange for academic advising through the Counseling Center in the Administration Building. It is advisable to call for a counseling appointment. For students who may drop by for help with an academic problem, there is usually a counselor available at the counter in the Counseling Center. Please call (805) 378-1428 for the drop-by schedule.

Career Counseling

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

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

Students are encouraged to use the career resources in the college library in researching chosen or tentative career goals. These materials, written as well as audio visual, represent the local, state and national job markets and are constantly updated in order to provide current and relevant planning aids. Additional career information is available in the Career Transfer Center.

Personal Counseling

Moorpark College, consistent with its stated philosophy of providing comprehensive education, and 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 counse-
Financial Aid

Financial aid is based on the student's need for help in successfully pursuing an educational program. Eligibility is determined by a Department of Education-approved 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.

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

Financial Aid eligibility in some programs requires a minimum of six (6) units of enrollment each semester. Continued eligibility requires successful completion of contract units with a cumulative grade point average of 2.0 or above. Please refer to the Financial Aid Satisfactory Academic Progress Standard located in the Financial Aid Office.

Types of aid available include grants, loans, and work study.

Grants

Grants are awarded to students who meet specific eligibility requirements. Grants are available in varying amounts of assistance and do not call for repayment. The grant programs are the Pell Grant, the Supplemental Education Opportunity Grant (SEOG), and the Cal-Grant which is funded and awarded by the State.

Loans

Students may qualify for loans through Moorpark College, where loans are incorporated as part of the regular financial aid package. The loans bear a variable interest capped at 8.25 percent 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.

Students interested in applying for financial aid should visit or write the Financial Aid Office to obtain an application and detailed instructions.

Phone: (805) 378-1462.

Scholarships

Student Activities Office (805) 378-1434 provides applications for a variety of scholarships that are available to Moorpark College students throughout the year. The scholarships are advertised on a specified bulletin board inside the Campus Center. Eligibility for scholarships depends on a number of things, including but not limited to scholastic achievement, financial need, and field of study. All students are encouraged to check scholarship opportunities.

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 provicing services.

There are four steps to the application procedure:

Step 1: Complete the Free Application for Federal Student Aid (FAFSA) 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.

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 cannot 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 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 Eng 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. Phone: (805) 378-1464.
**Disabled Students Program & Services**

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

The college is free of architectural barriers. Elevators have been installed in all two-story buildings. Special ramps, handrails and automatic doors have been installed. Additionally, every effort has been made to remove educational barriers and provide open access to students with disabilities to all educational programs. The following special services are offered:

- Interpreter serv. for hearing impaired
- Note taking services
- Adaptive Computer Technology
- Reader services
- Transcribing services
- Special equipment including:
  - Tape recorders
  - Print magnifiers
  - Closed circuit television
  - Calculators
  - Adapted computers
  - Large print materials

**The Disabled Student Support Center**

The Center is located next to the Campus Center. Phone: (805) 378-1461; TDD (805) 378-1461; Fax: (805) 378-1594.

**Learning Diagnostic Center**

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

Accommodations for academic classes can be provided by making arrangements with instructors. The center provides personalized tutorial assistance, educational advisement and program planning. The center is located next to the Campus Center. Phone: (805) 378-1461.

**High Tech Center for the Disabled**

The High Tech Center uses assistive computer technology to give disabled students access to IBM personal computers. Special hardware and software provide computer access for physically disabled, blind, and deaf students. Among the assistive devices in the Center are a voice recognition dictation system, screen enlarger, screen reader, and print magnification system. There is also a special headset designed for students who cannot use a mouse manually.

Special skills development computer programs are available for students with acquired brain injuries and learning disabilities. The center provides individualized computer instruction in keyboarding, memory, critical thinking, reading, vocabulary, English, spelling, and mathematics. Word processing, multimedia reference materials, and access to the Internet are also available.

Computer courses offered include: Windows 95, Word for Windows, and a self-paced keyboarding course. The High Tech Center is located in AA132. Phone: (805) 378-1547.

**Health Services**

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

**Specialty Services** provided include: General Practitioner, Women's Clinic, Psychotherapists and Dermatologist. Appointments are necessary for these services. Phone: (805) 378-1413.

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

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

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

Library

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 approximately 65,000 books, more than 350 periodical subscriptions, and 249 periodical titles on microfilm. Also available are audio cassettes, video tapes, phonograph records, and compact discs.

The library reference collection includes traditional research materials and also includes such resources as pamphlet files, college catalogs, an extensive collection of career and scholarship information, several computerized subject indexes to periodical articles and numerous other computer-driven resources available on workstations 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, a group-study room, and an Internet Lab 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, 8:00 a.m. - 8:30 p.m.; Friday, 8:00 a.m. - 4:30 p.m. and Saturday, 9:00 a.m. - 2:00 p.m.

Summer hours differ. Phone: (805) 378-1450.

Center for Learning Assistance Services (CLAS)

The Center for Learning Assistance Services provides a comprehensive program of academic support services for Moorpark College students. The Center is located on the second floor of the Library room L-222.

There are four main service areas: Essential Skills, Academic Skills Materials, Tutorials, and the Computer Lab. Phone: (805) 378-1556.

Essential Skills

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

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 Class Listing section of the catalog.

Academic Skills Materials

Course-related materials for supplemental use are available in multimedia format including videos, tapes and computers.

Tutorials/Supplemental Instruction

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

Computer Lab

The computer lab is used for instructional lessons in reading, writing, math, study skills, speed reading, and vocabulary development. Students must be enrolled in a related course to use the facility.

International Student Support Services

Moorpark College is authorized by the Immigration and Naturalization Service to admit international students. The purpose of the International Student Office is to assist our international students while they are in the United States. International students are encouraged to visit or telephone the office if they have any questions and concerns. The International Student Office provides a range of services such as:

- Admission & registration assistance
- Immigration regulation & documentation
- Employment
- Housing assistance
- Liaison between student & faculty
- Campus activities
- Community activities
- Personal concerns
- Health insurance
- Orientations

The International Student Office is located in the Administration Building, Phone: (805) 378-1414.

Moorpark College Library

is

INTERNET CENTRAL

For Students

- The internet classroom is the place for internet access on campus
- It features 16 public access stations with printing available
  Hours: 8:00 a.m. to 8:30 p.m. Mon.-Thur.; 8:00 a.m. to 4:30 p.m. Fri., and 9:00 a.m. to 2:00 p.m. Sat.

(SUMMER HOURS DIFFER)
Other Services A to Z

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. Phone: (805) 378-1436.

Business Office
This is the place where you may pay fees, report any problems you may have with vending or game machines, buy postage stamps, get change and, in general, handle your cash transactions, pay parking tickets and purchase and pick up parking permits. Phone: (805) 378-1437.

Cafeteria / The Food Court
Meet your friends here for breakfast, a hot lunch, refreshment breaks, and good times. The inviting, relaxed atmosphere provides a favorite gathering place between classes. At times when the Food Court is closed, vending machine items are available. Phone: (805) 378-1439.

Child Development Center
The Moorpark College Child Development Center is a Nationally Accredited developmentally appropriate program with a curriculum designed for children from the ages of 2 years 9 months to 5 years old. This facility is located on campus in the Applied Arts Building, room AA 142 and is available for children of registered students, staff/faculty and community.

For a fee, schedules may be arranged for a MINIMUM of 2 half-day sessions to a maximum of 5 half-day sessions. Arrangements can be made for extended care in the early morning, lunch time and the early afternoon. Because space is very limited, students need to complete the application well in advance of the current semester. Phone: (805) 378-1401 for more information.

Computer Labs (open access)
Enrolled students have access to computers for Internet research and word processing. Research, word processing, database and spreadsheet projects can be completed in the computer labs located in the Technology Building when classes are not in session and a technician is present. The new Life Science/Math/Computer Studies (LMC) building houses a 48-station lab dedicated to open access and available for all projects. It is open Monday-Saturday. Permits to use the labs are available for a small fee in the Business Office.

Copiers
Coin operated copy machines are available for student use in the Campus Center and the Library.

Grades By Phone
Grades are available by phone four weeks after the end of each semester. Phone: (805) 378-1595.

Info-Line
The Moorpark College Info-Line is a fast and easy way to obtain current recorded information about the college’s programs and services. The Info-Line offers over one hundred messages you can hear 24 hours a day from any touch-tone phone. To begin, phone: (805) 378-1597.

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. Phone: (805) 378-1400.

Public Transportation
The VISTA bus service operates throughout the Conejo Valley with daily stops at Moorpark College. This is an affordable, convenient and comfortable way to travel to and from the campus. You may purchase a discounted student bus pass at the Business Office, phone: (805) 378-1437. Bus schedules are available inside the Campus Center student lounge. For VISTA, phone: (800) 438-1112.

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

The Center sponsors various activities throughout the semester, such as boating lectures and discussions as well as special evening presentations. In addition, staff is available for referrals to other campus and community services. A Family Law Clinic and a general law clinic are also offered. Phone: (805) 378-1492 for more information.

World Wide Web
The Moorpark College website posts every schedule and catalog, as well as many faculty and department home pages. Log on at www.moorpark.cc.ca.us.
Student Activities

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

Scholarships

The Student Activities Office is located inside the Campus Center and provides applications for a variety of scholarships available to Moorpark College students. Announcements of scholarships are posted on a special bulletin board in the Campus Center. Eligibility for scholarships depends on a number of things, including, but not limited to, scholastic achievement, financial aid, and field of study. All students are encouraged to check scholarship opportunities.

Housing

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

Student Employment

Students may now access job opportunity information off the World Wide Web from the Internet. Internet address is: http://www.jobtrak.com:80/. The user name and password prompt for Moorpark College listings is the word “Raiders.” If you do not have access to the Internet, the same job listings are posted on bulletin boards inside the MC Campus Center. Additional job announcements are available on the “Career Center” bulletin board, located inside the Student Lounge at the Campus Center. If you would like to place an ad on the employment opportunity board, please call (800) 999-8725. The ad will be posted on the Internet and at Moorpark College.

Associated Students

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

Associated Student College Photo I.D. ($10/semester or $15/year)

The college photo I.D. card may be purchased at the campus Business Office for $10/semester or $15/year. Once you have paid at the Business Office, please bring the receipt to the Associated Students office in the Campus Center and have your picture taken. A photo I.D. card will be made for your use to receive discounts at local movie theaters, college athletic events, and college theatrical performances, in addition to using the card for campus services. Phone the Associated Students at (805) 378-1400, ext. 1635.

Student Representation Fee (optional) - $1.00

This fee provides support for students or representatives who state positions and viewpoints before city, county and district governments, and before offices and agencies of the state and federal governments. Authorized by Education Code, Section 76060.5, this fee may be waived for religious, political, financial, or moral reasons. Waiver forms are available at the campus Business Office and the Associated Students Office. Phone the Associated Students Office at (805) 378-1400, ext. 1635.

Student Organizations

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

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Opportunities

Forensics Team

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 contests. 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, Dr. James Wyman, Char Arnold, or Rolland Petrello. Phone: (805) 378-1433.

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; tennis courts; many challenging cross country courses; excellent baseball and softball diamonds; and a comprehensive track and field stadium. Griffin Stadium provides the Moorpark College gridiron squad a great home field.

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

The intercollegiate sports teams are all under the supervision of the college Athletic Coordinator. Phone: (805) 378-1457.

The Performing Arts Program

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

Students interested in the Theater can participate on stage or behind the scene in dramatic productions, musical comedies, the student-written One-Act Play Festival, Summer Performing Arts Festival, improvisation workshops, directing workshops and technical theater crews. For more information phone: (805) 378-1433.

Entertainment

Athletics

Watch Moorpark College's Raider teams in action. For game schedules phone: (805) 378-1457.

Charles Temple Observatory

Moorpark College's on-campus observatory is situated in an area with minimal light pollution! For information on public astronomy programs contact the Ventura County Astronomical Society at (805) 529-7813 or www.veno.net/vcas.

Exotic Animal Training Program

AMERICA'S TEACHING ZOO is one of only two collegiate animal training programs in the United States. The zoo is open for shows and tours on weekends. For information contact the zoo at (805) 378-1441 or www.uc.net/gwbiz.

Performing Arts

THE PERFORMING ARTS CENTER, completed in 1996, provides a state-of-the-art setting for band, choral, dance, opera, orchestra, speech and theater productions each year. For information and reservations, phone: (805) 378-1485.
Educational Options

Whether your educational goal is to obtain a college degree or vocational certificate, transfer to a university, update your workplace skills or take a class for the joy of learning, Moorpark College is a great place to start.

Course Selection
Moorpark College offers more than 1,500 classes in 100 programs during the fall and spring semesters, and hundreds over the summer session.

Scheduling Options
Classes are held days, evenings and weekends, on campus and at four local high schools. Choose from full semester or short-term classes, one-day seminars, or Fast Track (accelerated) classes.

Distance Education
Some Moorpark College courses are offered on-line, by television or via distance learning (students meet in small groups at mutually convenient times and locations).

For specific information on all of the above educational opportunities consult the schedule of classes.

Instructional Options

Scholar Transfer and Enrichment Program (STEP), an Honors Program
STEP will provide students a rigorous learning experience that encourages independent and creative thought, will enhance the students’ critical reading, writing and thinking abilities as tools for achieving further academic success, and will prepare students for transfer to four-year institutions.

All students are eligible to enroll in an honors course if they have completed the designated prerequisite course with an A or B. This policy ensures open admission to honors courses.

Students who apply for admission to the program and meet the exit criteria of the program will receive special recognition both at Moorpark College and at transfer universities. Please phone (805) 378-1400, ext. 1631 for more information.

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.

The Internship Program
Students have the opportunity to earn graded college credit by working in a volunteer or paid position that is related to their career goal and/or major. Students receive one unit of credit for each 60 hours of unpaid or 75 hours of paid work, and may enroll in up to 4 units a semester, with a maximum of 16 units total. The student must also attend an orientation, develop learning objectives, complete a project or report related to the internship, and maintain signed verification of internship hours. The student meets with a faculty advisor who supervises the internship and awards the grade.

Some internships are available through the Internship Office, or the student can apply to receive credit for an existing position if it involves new or expanded learning.

The Internship Office is located in the Campus Center next to the bookstore. Please call (805) 378-1400, ext. 1668 for more information.

Learning Community Institutes
The Learning Community Institutes connect solid learning experiences to real-life opportunities in the fields of Health Sciences, Media Arts or Liberal Studies (teaching). Courses are linked by each Institute’s common theme. Students earn transferable credit and may be able to earn an associate’s degree as well.

Students move together as a group in a two-year learning direction, providing an atmosphere of collaboration and exchange.

See more information in the Schedule of Classes or consult the following:
- Health Science Institute: Denise Byrne (805) 378-1400, ext. 1624;
- Media Arts: John Gray (805) 378-1400, ext. 1875;
- Liberal Studies: Linda McBil (805) 378-1400, ext. 1659.

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.

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.

Company Specific Education and Training Program
Moorpark College offers customized education in eastern Ventura County designed to the direct specifications of business and industry needs. Most of the courses offered provide elective college credit. Employees of the companies taking these courses are also encouraged to enroll in the regular college programs to earn certificates and degrees. Call: (805) 378-1405.

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. 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.

Students can attend any accredited college and still take ROTC at one of the program locations through extension. For more information, call a ROTC unit listed below:

<table>
<thead>
<tr>
<th>College</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCLA</td>
<td>(310) 825-1742</td>
</tr>
<tr>
<td>USC</td>
<td>(213) 740-2670</td>
</tr>
<tr>
<td>Loyola Marymount</td>
<td>(310) 338-2770</td>
</tr>
</tbody>
</table>
Reading Course Descriptions
The section that follows is 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 meeting, 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.

ACCOUNTING
See courses in Business

ADAPTIVE COMPUTER TECHNOLOGY
See courses in Learning Skills

ANATOMY
See courses in Biological Sciences

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:

Dean
AI Nordquist, Phone (805) 378-1445

Faculty
Full-Time
John Baker, Robert Lopez, Thomas McAdam, Jack Reynolds

Part-Time
Diane Brabant, Charles Eastman, Nadine Mandel-Toren, Paul Mattson, Michele Titus

Counselor
Mike Johnson

ARCHAEOLOGY Degree

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 students to archaeological research and give them the opportunity to actively participate in supervised archaeological research. These requirements were also chosen to optimize students’ preparation for upper-division coursework in Anthropology/Archaeology offered by four-year institutions. Since coursework 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 that 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 10 units.

ANTH M03 Archaeology.................................................. 3
ANTH M02 Cultural Anthropology.................................... 3
ANTH M01 Physical Anthropology..................................... 3
ANTH M01L Physical Anthropology Lab ............................ 1

AREA B: Practical courses in Archaeological methodology for a total of 9 units. Courses may be repeated two times in this area.

ANTH M05 Archaeological Field Methods............................. 3
ANTH M10 Archaeological Reconnaissance........................... 3
ANTH M12 Archaeological Laboratory Procedures.................. 3

AREA C: Electives for a total of 18 units selected from the following courses. Those courses indicated below by (2X) may be repeated two times.

ANTH M05 Archaeological Field Methods (2X)...................... 3
ANTH M10 Archaeological Reconnaissance (2X)..................... 3
ANTH M12 Archaeological Laboratory Procedures (2X)............. 3
ANTH M60C Indians of California...................................... 3
ANTH M60R The Chumash and Their Neighbors...................... 3
ANTH M60R Anthropological Research Methods (2X).............. 3
ANTH M60S Introductory Archaeological Field Methods Supervision (2X)..................................................... 3
BIOL M05 Field Biology................................................. 3
GEOG M06 Map Use and Interpretation.............................. 2
GEOG M04 Geology....................................................... 4
GEOG M21 Geology of California..................................... 3
PHOT M01A Beginning Photography.................................... 3

TOTAL minimum units required in major area.................... 37

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

ANTH M01 -- 3 Units
Physical Anthropology
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02881 for 45 contact hours.
Focuses on human evolution and diversity, including genetics, evolution, primatology, paleontology, human variation and biocultural adaptation. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ANTH 2

ANTH M01L -- 1 Unit
Physical Anthropology Lab
Prerequisite: Completion of or concurrent enrollment in ANTH M01
Class Hours: 3 lab
Provides hands-on understanding of principles of evolution and genetics. Covers comparative vertebrate anatomy, modern and fossil hominids, primatology, variation in modern human populations, medical genetics and adaptability. Introduces molecular biological methods. Applies to Associate Degree. Transfer credit: CSU, UC pending.

ANTH M02 -- 3 Units
Cultural Anthropology
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02881 for 45 contact hours.
Focuses on basic concepts and methods for analyzing cultural systems, including the structure and evolution of human behavior. Examples primarily drawn from non-western societies. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ANTH 4

ANTH M03 -- 3 Units
Archaeology
Prerequisite: None
Class Hours: 3 lecture
Introduces the history and goals of archaeology, emphasizing methods of interpreting and dating the prehistoric past through the rise of complex societies as seen both in the New World and in Ventura County. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ANTH 6

ANTH M04 -- 3 Units
Chicano Culture
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02881 for 45 contact hours.
Focuses on the social and cultural heritage of the middle American Chicano civilizations from the Spanish conquest to present-day America, emphasizing their contributions in the fine arts, literature, and oral history. (Same course as Chicano Studies M02). Applies to Associate Degree. Transfer credit: CSU; UC

ANTH M05 -- 3 Units
Archaeological Field Methods
Prerequisite: Completion of or concurrent enrollment in ANTH M03
Class Hours: 1 lecture, 6 lab
Focuses on expanding existing knowledge of archaeological inquiry with practical emphasis on actual site excavation and primary sorting of facts. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC

ANTH M06 -- 3 Units
Introduction to Native American Studies
Prerequisite: None
Class Hours: 3 lecture
Surveys the origins, development, and attainments of Native Americans within the United States. Applies to Associate Degree. Transfer credit: CSU; UC

ANTH M07 -- 3 Units
Peoples and Cultures of the World
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02881 for 45 contact hours.
Surveys various world peoples and cultures, emphasizing different survival strategies and the resulting effects on social structures, belief systems, and economic organization. Applies to Associate Degree. Transfer credit: CSU; UC

ANTH M09 -- 3 Units
Anthropology of Women
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02881 for 45 contact hours.
Explores women's roles, stereotypes and contributions, past and present, drawing examples from traditional and contemporary world cultures and from relationships among gender, kinship, economics, politics, myth and ideology. Applies to Associate Degree. Transfer credit: CSU; UC

ANTH M10 -- 3 Units
Archaeological Reenactment
Prerequisite: Completion of or concurrent enrollment in ANTH M03
Class Hours: 1 lecture, 6 lab
Offers practical application of archaeological field research skills (discovery, evaluation, and recording of cultural resources). Introduces use of a compass; evaluation of soil, terrain formations, plant resources, and urban disturbance; and practice of various reporting techniques. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU

ANTH M11 -- 3 Units
The Anthropology of Magic, Witchcraft and Religion
Prerequisite: None
Class Hours: 3 lecture
Focuses on societies' attempts to deal with the supernatural by exploring religion as a fact in nature, the shaman as a religious specialist, religious classification across cultures, ethnomedicine, and the relationship between science and religion. Applies to Associate Degree. Transfer credit: CSU; UC

ANTH M12 -- 3 Units
Archaeological Laboratory Procedures
Prerequisite: ANTH M03
Class Hours: 1 lecture, 6 lab
Offers hands-on work with archaeological collections, including the initial processing, sorting, washing, stabilizing and cataloging of artifacts. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC

ANTH M01L -- 1 Unit
Physical Anthropology Lab
Prerequisite: Completion of or concurrent enrollment in ANTH M01
Class Hours: 3 lab
Provides hands-on understanding of principles of evolution and genetics. Covers comparative vertebrate anatomy, modern and fossil hominids, primatology, variation in modern human populations, medical genetics and adaptability. Introduces molecular biological methods. Applies to Associate Degree. Transfer credit: CSU, UC pending.
ANTH M22A/B -- 0.5 to 3 Units Each
Independent Studies in Anthropology
Prerequisite: A previous course in Anthropology
Class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of anthropology through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ANTH M60A-Z -- 1 to 3 Units Each
Topics in Anthropology
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

ANTH M60C -- 3 Units
Indians of California
Prerequisite: None
Class Hours: 3 lecture
Offers a multidimensional look at the aboriginal inhabitants of California before and since European contact. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ANTH M601 -- 3 Units
The Chumash and Their Neighbors
Prerequisite: None
Class Hours: 3 lecture
Offers an in-depth look at the Chumash, Ventura County's major aboriginal population, emphasizing their social, political and economic structure as well as their relations with aboriginal neighbors and the Spanish Colonial establishment. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ANTH M60J -- 3 Units
Egyptology: Archaeology of the Land of the Pharaohs
Prerequisite: None
Class Hours: 3 lecture
Emphasizes the historical and cultural development of ancient Egypt as seen through archaeological contributions. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ANTH M60R -- 3 Units
Anthropological Research Methods
Prerequisite: A previous course in Anthropology
Class Hours: 2 lecture, 3 lab
Introduces selected aspects of anthropological research strategies and tools through work on actual research projects. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ANTH M60S -- 3 Units
Introductory Archaeological Field Methods Supervision
Prerequisite: 12 units of ANTH M05
Class Hours: 1 lecture, 6 lab
Introduces advanced students to the training and management of an inexperienced "Pit Crew." May be taken four (4) times for credit. Only offered credit/no credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ANTH M80 -- 1 to 4 Units
Internship in Anthropology
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

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, Sculptor, Papermaker, Printmaker, Ceramist, Jeweler, Water Color Artist, Studio Artist, Art Dealer, Gallery Owner, Artist's Agent, Museum Worker, Art Researcher, Fashion Designer, Cartoonist, Art Restorer, Illustrator, Advertising Assistant

Dean

Sid Adler, Phone (805) 378-1443

Faculty

Full-Time
Kirk Aiken, Christine Marx, Frank Sardisco

Part-Time
Lynn Creighton, Sheldon Hocking, Gage Laguigue, Guillis Monezis, Susan Nell, Margaret Phelps, Mary Seko, Gerald Swigler, Bonese Turner, Sueann Valentine-Wheeler

Counselor
Don Henderson

Art Degree

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

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART M01A</td>
<td>3</td>
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<tr>
<td>ART M01B</td>
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<tr>
<td>ART M04A</td>
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<td>ART M04B</td>
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</tr>
<tr>
<td>ART M12A</td>
<td>3</td>
</tr>
<tr>
<td>ART M12B</td>
<td>3</td>
</tr>
<tr>
<td>ART M13A</td>
<td>3</td>
</tr>
</tbody>
</table>

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

TOTAL minimum units required in major area ........................................ 27

Recommended Courses:

ART M02, M08A, M05A, M16A; GR M21; GR M23; PHOT M01A
See Degree Requirements and Transfer Information section for General Education requirements.
Art Courses

ART M01A -- 3 Units
Art History
Prerequisite: None
Class Hours: 3 lecture
Surveys the history of art of the western world, from prehistoric to the middle ages, ranging from ancient to early Christian and Byzantine art. Examines key historical figures as well as architectural, paint and sculpture techniques. Course required of all art majors. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ART 2; Art Seq. A (ART M01A + M01B).

ART M01B -- 3 Units
Art History
Prerequisite: None
Class Hours: 3 lecture
Surveys the history of art of the western world from the middle ages to modern times. Emphasizes techniques of art production as well as the importance of key historical figures. Course required of all art majors. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ART 4; Art Seq. A (ART M01A + ART M01B).

ART M01C -- 3 Units
Art History
Prerequisite: None
Class Hours: 3 lecture
Investigates the theory and practice of the visual arts from 1850 to the present, exploring specific movements and their reflection of social and technological changes. Applies to Associate Degree. Transfer credit: CSU; UC.

ART M02 -- 3 Units
Art Appreciation
Prerequisite: None
Class Hours: 3 lecture
Explores major artistic techniques in their historical and cultural contexts, developing understanding through informed perceptions and evaluations. Applies to Associate Degree. Transfer credit: CSU; UC.

ART M04A -- 3 Units
Color and Design
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Provides background in the use of design principles, emphasizing color theory and its practical applications through specific weekly projects in line, shape, texture, form, and the principles of abstraction. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ART 14.

ART M04B -- 3 Units
Three-Dimensional Design
Prerequisite: ART M04A
Class Hours: 2 lecture, 3 lab
Explores 3D design through the application of 2D design principles, emphasizing the creation of form via interaction with various materials, techniques and construction methods. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ART 16.

ART M04C -- 3 Units
Advanced Problems in Color and Design
Prerequisite: ART M04A
Class Hours: 2 lecture, 3 lab
Further explores 2D design concepts mastered in ART M04A through advanced problems in line, shape, texture, form and motif. Emphasizes creativity as well as established standards of excellence through a study of industrial and commercial design principles. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC.

ART M08A -- 3 Units
Beginning Ceramics
Prerequisites: None
Class Hours: 1 lecture, 6 lab
Introduces the potter's wheel and provides practice in elementary clay construction methods as well as glazing and firing techniques. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ART 6.

ART M08B -- 3 Units
Beginning Ceramics
Prerequisite: ART M08A
Class Hours: 1 lecture, 6 lab
Practices the techniques of elementary clay construction through exploration of sculptural forms and the development of glazes, decoration and firing methods. Applies to Associate Degree. Transfer credit: CSU; UC.

ART M09A -- 3 Units
Ceramic Design
Prerequisites: ART M08B and ART M04A
Class Hours: 1 lecture, 6 lab
Examines clay bodies, glaze materials and calculations, and firing techniques through independent projects. Develops individual growth and creative expression. Applies to Associate Degree. Transfer credit: CSU; UC.

ART M09B -- 3 Units
Ceramic Design
Prerequisite: ART M09A
Class Hours: 1 lecture, 6 lab
Offers in-depth study of ceramics through independent projects designed to enhance artistic mastery. Applies to Associate Degree. Transfer credit: CSU; UC.

ART M12A -- 3 Units
Drawing and Composition
Prerequisite: None
Class Hours: 1 lecture, 6 lab
Stresses graphic representation of objects through a variety of media and techniques, emphasizing pictorial composition, depth perception, perspective and rendering. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ART 8.

ART M12B -- 3 Units
Drawing and Composition
Prerequisite: ART M12A
Class Hours: 1 lecture, 6 lab
Expands the exploration of pen and ink and watercolor washes through a study of illustrative drawing, analytic abstraction concepts and advanced problems in rendering. Applies to Associate Degree. Transfer credit: CSU; UC.

ART M13A -- 3 Units
Life Drawing
Prerequisite: ART M12A
Class Hours: 1 lecture, 6 lab
Draws the human figure from live models. Emphasizes structure, proportion, form and composition through an introduction of linear and tonal concepts. Different media will be explored, including charcoal, conte crayon, pencil, pen and ink. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ART 24.
ART M13B -- 3 Units
Life Drawing
Prerequisite: ART M13A
Class Hours: 1 lecture, 6 lab
Expands drawing the human figure from a live model. Emphasizes freedom of expression as well as structure, proportion, form, and composition. Applies to Associate Degree. Transfer credit: CSU; UC

ART M13C -- 3 Units
Life Drawing
Prerequisite: ART M13B
Class Hours: 1 lecture, 6 lab
Further expands drawing the human figure, beginning with a skeletal structure. Uses many media; emphasizes structure, proportion, form and composition; and continues practice of linear and tonal concepts. Applies to Associate Degree. Transfer credit: CSU; UC

ART M13D -- 3 Units
Life Drawing
Prerequisite: ART M13C
Class Hours: 1 lecture, 6 lab
Further expands drawing the human figure and skeletal structure. Uses many media; emphasizes structure, proportion, form and composition; and increases practice of linear and tonal concepts. Applies to Associate Degree. Transfer credit: CSU; UC

ART M14A -- 2 Units
Silk Screen-Serigraph Printmaking
Prerequisite: ART M04A
Class Hours: 6 lab
Introduces silk screen as a printmaking tool, emphasizing basic techniques through practical work using inks, stopouts, and solvents. Provides group and individual critiques. Applies to Associate Degree. Transfer credit: CSU; UC

ART M14B -- 2 Units
Advanced Silk Screen-Serigraph Printmaking
Prerequisite: ART M14A
Class Hours: 6 lab
Emphasizes individual expression through the production of multicolor runs and the development of a personal approach to silk screen, if may be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC

ART M15A -- 3 Units
Beginning Printmaking
Prerequisite: ART M04A
Class Hours: 1 lecture, 6 lab
Introduces printmaking media, including intaglio (etching, engraving, etc.) but emphasizing relief, collography, and embossed print. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ART 20

ART M15B -- 3 Units
Beginning Printmaking
Prerequisite: ART M15A
Class Hours: 1 lecture, 6 lab
Fully explores intaglio techniques, including line etching, aquatint, sugar lift, and experimental techniques. Applies to Associate Degree. Transfer credit: CSU; UC

ART M15C -- 3 Units
Advanced Printmaking
Prerequisite: ART M15B
Class Hours: 1 lecture, 6 lab
Expands work in intaglio and relief, emphasizing individual exploration of solutions and experimental techniques. Applies to Associate Degree. Transfer credit: CSU; UC

ART M15D -- 3 Units
Advanced Printmaking
Prerequisite: ART M15C
Class Hours: 1 lecture, 6 lab
Offers advanced work in intaglio with greater exploration of experimental techniques. Applies to Associate Degree. Transfer credit: CSU; UC

ART M16A -- 3 Units
Painting
Prerequisite: ART M12A or ART M04A
Class Hours: 1 lecture, 6 lab
Introduces the nature of structural and expressive values in contemporary painting, emphasizing form, control or pictorial order, and the uses of color and light as fundamental skills necessary to mastery of basic painting techniques. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ART 10

ART M16B -- 3 Units
Painting
Prerequisite: ART M16A
Class Hours: 1 lecture, 6 lab
Continues the development of fundamental painting skills and concepts. Emphasizes technical competence and individual concepts using both traditional and modern materials. Applies to Associate Degree. Transfer credit: CSU; UC

ART M16C -- 3 Units
Advanced Painting
Prerequisite: ART M16B
Class Hours: 1 lecture, 6 lab
One-on-one student/teacher relationship explores advanced painting concepts and techniques. Encourages personal and unique self-expression through experimentation with and interpretation of subject matter. Applies to Associate Degree. Transfer credit: CSU; UC

ART M16D -- 3 Units
Advanced Painting
Prerequisite: ART M16C
Class Hours: 1 lecture, 6 lab
Allows more advanced work with painting concepts and techniques aimed at developing more extensive self-expression. Applies to Associate Degree. Transfer credit: CSU; UC

ART M17A -- 3 Units
Landscape Painting
Prerequisite: ART M04A or ART M12A
Class Hours: 1 lecture, 6 lab
Introduces painting skills and concepts applicable to landscape (both indoor and outdoor). Focuses on painting nature out of doors in various media, such as acrylics, oils, watercolor, and pastels. Applies to Associate Degree. Transfer credit: CSU; UC

ART M17B -- 3 Units
Landscape Painting
Prerequisite: ART M17A
Class Hours: 1 lecture, 6 lab
Expands the skills and concepts of painting applicable to landscape, emphasizing a more personal, creative approach. Applies to Associate Degree. Transfer credit: CSU; UC

ART M18A -- 3 Units
Water Color
Prerequisite: ART M04A or ART M12A
Class Hours: 1 lecture, 6 lab
Introduces a thorough understanding of the watercolor media, building from simple exercises to more complex problems solved in personal and creative ways. Applies to Associate Degree. Transfer credit: CSU; UC
ART M18B -- 3 Units
Water Color
Prerequisite: ARTM18A
Class Hours: 1 lecture, 6 lab
Offers advanced watercolor techniques, encouraging the use of the multiple image in both landscapes and still life. Applies to Associate Degree. Transfer credit: CSU; UC

ART M18C -- 3 Units
Water Color
Prerequisite: ART M18B
Class Hours: 1 lecture, 6 lab
Expands experimentation with advanced watercolor techniques and the use of the multiple image in landscape and still subjects. Encourages advanced and individualized areas of investigation. Applies to Associate Degree. Transfer credit: CSU; UC

ART M18D -- 3 Units
Water Color
Prerequisite: ART M18C
Class Hours: 1 lecture, 6 lab
Emphasizes individual growth and development through continued merging of advanced watercolor techniques with each student's unique and personal contributions. Applies to Associate Degree. Transfer credit: CSU; UC

ART M19A -- 3 Units
Beginning Sculpture
Prerequisite: None
Class Hours: 1 lecture/6 lab
Develops an awareness of historical and contemporary concerns regarding three-dimensional design concepts. Encourages personal expression through materials such as paper, cardboard, plaster, wood, wire, and clay. Applies to Associate Degree. Transfer credit: CSU; UC

ART M22A/B -- 1 to 3 Units Each
Independent Studies in Art
Prerequisite: A previous course in Art
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of art through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ART M23 -- 3 Units
Beginning Stained Glass Design
Prerequisite: None
Class Hours: 1 lecture, 6 lab
Introduces the art of stained glass, exploring design sources and principles as well as fabrication and embellishment techniques. Applies to Associate Degree. Transfer credit: CSU

ART M24 -- 3 Units
Advanced Stained Glass Design
Prerequisite: ART M23
Class Hours: 1 lecture, 6 lab
Expands artistic knowledge and ability of stained glass design. Explores more complex design sources and principles as well as advanced fabrication and embellishment techniques. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

ART M60A-Z -- 1 to 3 Units Each
Topics in Art
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester’s Schedule of Classes.

Developed topics include:

ART M60A -- 1 Unit
Art Gallery Practices
Prerequisite: ART M04A or GR M32 or PHOT M01B
Class Hours: 1 lecture
Introduces gallery practices relating to exhibition selection and design as well as budgeting and installation techniques. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ART M60C/D/E -- 1, 2 or 3 Units
Printmaking Studio Practices
Prerequisite: ART M15A or M15B or M15C or M15D
Class Hours: 3, 6 or 9 lab as arranged
Fully explores intaglio, relief, pantographs or experimental techniques under instructor's direct supervision. Meets individual student needs. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ART M60F -- 3 Units
Glaze Chemistry
Prerequisite: A previous course in ceramics
Class Hours: 2 lecture, 3 lab
Introduces glaze formulations and ceramic technology, including clays, kilns, firing. Continues work on wheel form, technique and design. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ART M80 -- 1 to 4 Units
Internship in Art
Prerequisite: Completion of one concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; credit limitations.

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

Career Opportunities
Most careers require bachelors or graduate degree.
Astronomer, Astrophysicist

Dean
Floyd Martin, Phone (805) 378-1459
Faculty

Full-Time
Balazs Becht, Clint Harper, Ron Wallingford

Part-Time
Hal Lando, Philip Klutch, Dennis Leatart, Carolyn Mallory

Counselors
Mary Martin, Danita R. Redd

Astrophysics Degree

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 by 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 that may be helpful towards the seeking of immediate employment.

Preparation for the Major:
- Mathematics -- two years high school algebra plus trigonometry or Math M03 and M07 or equivalent.
- Chemistry -- one year high school chemistry or CHEM M12 or equivalent.
- Physics -- one year of high school physics or PHYS M10A or equivalent.

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

Required Courses:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST M01*</td>
<td>An Introduction to Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>CHEM M01A</td>
<td>General Chemistry I</td>
<td>6</td>
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<tr>
<td>CHEM M1B</td>
<td>General Chemistry II</td>
<td>6</td>
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<tr>
<td>MATH M25A</td>
<td>Calculus with Analytic Geometry I</td>
<td>5</td>
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<tr>
<td>MATH M25B</td>
<td>Calculus with Analytic Geometry II</td>
<td>5</td>
</tr>
<tr>
<td>MATH M25C</td>
<td>Calculus with Analytic Geometry III</td>
<td>5</td>
</tr>
<tr>
<td>MATH M35</td>
<td>Applied Differential Equations</td>
<td>3</td>
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<tr>
<td>PHYS M20A/M20AL</td>
<td>Mechanics of Solids and Fluids/Lab</td>
<td>5</td>
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<tr>
<td>PHYS M20B/M20BL</td>
<td>Electricity and Magnetism/Lab</td>
<td>5</td>
</tr>
<tr>
<td>PHYS M20C/M20CL</td>
<td>Wave Motion/Heat/Optics &amp; Modern Physics Lab</td>
<td>5</td>
</tr>
</tbody>
</table>

TOTAL minimum units required in major area: 48

*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
CHEM M01A .......................... 6
MATH M25A .......................... 5
Total .................................. 11

Second Semester
CHEM M01B ................................ 6
MATH M25B ................................ 5
PHYS M20A/M20AL ....................... 5
Total .................................. 16

Third Semester
AST M01 ................................ 3
MATH M25C ................................ 5
PHYS M20B/M20BL ....................... 5
Total .................................. 13

Fourth Semester
MATH M3 ................................ 3
PHYS M20C/M20CL ....................... 5
Total .................................. 8

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

Astronomy Courses

AST M01 -- 3 Units
An Introduction to Astronomy
Prerequisite: None
Class Hours: 3 lecture
Introduces modern Astronomy in a descriptive, nonmathematical way, emphasizing our solar system, stars, galaxies, and the origin and evolution of the universe. AST formerly ASTR. Applies to Associate Degree. Transfer credit: CSU; UC

AST M01L -- 1 Unit
An Introduction to Astronomy Laboratory
Prerequisite: Completion of or concurrent enrollment in AST M01 or AST M02
Class Hours: 3 lab
Reinforces principles and techniques of astronomy through hands-on experience with telescopes, star charts, and other common devices used to observe and measure the moon, planets, and the stars. AST formerly ASTR. Applies to Associate Degree. Transfer credit: CSU; UC

AST M02 -- 3 Units
Our Solar System: The Next Frontier
Prerequisite: None
Class Hours: 3 lecture
Introduces both observational and historical Astronomy, reviewing the planets, satellites, asteroids, comets, and the sun. Discusses the laws of motion and gravitation, especially in connection with space travel—past, present and future. AST formerly ASTR. Applies to Associate Degree. Transfer credit: CSU; UC

AST M10 -- 2 Units
Observational Astronomy
Prerequisites: AST M01/M01L or AST M02 and MATH M06 or MATH M07
Class Hours: 1.5 lecture, 1.5 lab
Introduces the tools, techniques, and practices of observational astronomy, emphasizing data acquisition; motions, position and brightness of celestial objects; and computer-accessed data banks. AST formerly ASTR. Applies to Associate Degree. Transfer credit: CSU; UC

AST M22A/B -- 0.5 to 3 Units Each
Independent Studies in Astronomy
Prerequisite: A previous course in Astronomy
Class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of Astronomy through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. AST formerly ASTR. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.
AST M80 -- 1 to 4 Units
Internship in Astronomy
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 2 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1665. May be taken four (4) times for credit. AST formerly ASTRO. Applies to Associate Degree. Transfer credit: CSU; credit limitations.

Astronomy Hotline
Ventura County Astronomical Society Starline offers 24-Hour Hotline news and information about astronomy. CALL (805) 529-7813.

BEHAVIORAL SCIENCE

Dean
Al Nordquist, Phone (805) 378-1445

Faculty

Counselor
Otelia Romero-Motlagh

Behavioral Science Degree

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

AREA A:

Required Courses: Units
ANTH M02 ... Cultural Anthropology ........................................ 3
PSY M01A ..... Intro to Psychology .................................................. 3
SOC M01 ......... Intro to Sociology .................................................. 3

AREA B: Required Courses for Emphasis:
• Anthropology Emphasis: Any other two (2) Anthropology courses except ANTH M01, ANTH M22, ANTH M60 series courses, or ANTH M80.
• Psychology Emphasis: Any other two (2) Psychology courses except the PSY M22, PSY M60 series courses, or PSY M80.
• Sociology Emphasis: Any other two (2) Sociology courses except the SOC M22, SOC M60 series courses, or SOC M80.

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 M01, ANTH M01L, ANTH M22, ANTH M60 series courses, or ANTH M80.
• Psychology: any course other than the PSY M22, PSY M60 series courses, or PSY M80.
• Sociology: any course other than the M22, M60 series courses, or SOC M80.

BIOLICAL 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, and government service.

Career Opportunities

Most careers require bachelor's or graduate degree.
Biological Technician, Public Health Biologist, Cytologist, Clinical Lab, Technologist, Museum Curator, Health Technician, Science Librarian, Ecologist, Athletic Trainer, Food and Drug Agency Trainee, Genetic Engineering Technician, Waste Management Technician, Laboratory Technician, Research Assistant, Plant Ecologist, Physical Therapist, Food Processing Technician

Dean
Floyd Martin, Phone (805) 378-1459

Faculty

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

Part-Time
Michael Cornish, James Haber, Jan Kaufman, Gerald Lasnik, Thomas Odgers, Mary Rees, Robert Stellwagen, Leonid Terr, Paul Tomashek, Jim Wolfe

Counselors
Edna Ingram, Letrisha Mai, Danita R. Redd

Biology Degree

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 M03 and M07 or equivalent.
- Chemistry — one year high school chemistry or CHEMM12 or equivalent.

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

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL M02AB</td>
<td>General Biology I/II</td>
<td>8</td>
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<tr>
<td>CHEM M01AB</td>
<td>General Chemistry I/II</td>
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<tr>
<td>MATH M16AB</td>
<td>Applied Calculus I/II</td>
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<tr>
<td>PHYS M10A/M10AL</td>
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<tr>
<td>PHYS M10B/M10BL</td>
<td>General Physics II/Lab</td>
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</table>

**TOTAL minimum units required in major area** 36

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

Suggested Course Sequence:

**First Semester**
- CHEM M01A ................................................. 6

**Total** .................................................. 6

**Second Semester**
- CHEM M01B ................................................. 6

**Total** .................................................. 6

**Third Semester**
- BIOL M02A ................................................. 4
- MATH M16A ................................................. 5
- PHY M10A/M10AL ........................................ 5

**Total** .................................................. 12

**Fourth Semester**
- BIOL M02B ................................................. 4
- MATH M16B ................................................. 5
- PHY M10B/10BL ........................................... 5

**Total** .................................................. 12

**Biology Degree**

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 by 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 that may be helpful towards the seeking of immediate employment.

Preparation for the Major:
- Mathematics — two years high school algebra plus trigonometry or MATH M03 and M07 or equivalent.
- Chemistry — one year high school chemistry or CHEM M12 or equivalent.
- Physics — one-year high school physics or PHY M10A or equivalent.

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

Required Courses:  

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<tr>
<td>CHEM M01AB</td>
<td>General Chemistry I/II</td>
<td>12</td>
</tr>
<tr>
<td>MATH M25AB</td>
<td>Calculus with Analytic Geometry I/II</td>
<td>10</td>
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<tr>
<td>PHYS M20A/M20AL</td>
<td>Mechanics of Solids and Fluids/Lab</td>
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</tr>
<tr>
<td>PHYS M20B/M20BL</td>
<td>Electricity and Magnetism/Lab</td>
<td>5</td>
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</table>

**TOTAL minimum units required in major area** 40

Recommended Courses: CHEM M08/M08L; PHYS M20C/M20CL

**First Semester**
- CHEM M01A ................................................. 6

**Total** .................................................. 6

**Third Semester**
- BIOL M02A ................................................. 4
- MATH M25B ................................................. 5
- PHY M20A/20AL ........................................... 5

**Total** .................................................. 14

**Second Semester**
- CHEM M01B ................................................. 5
- MATH M25A ................................................. 5

**Total** .................................................. 10

**Fourth Semester**
- BIOL M02B ................................................. 4
- PHY M20B/M20BL ........................................ 5

**Total** .................................................. 9

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

**Anatomy Courses**

**ANAT M01 — 4 Units**

General Human Anatomy

Prerequisite: BIOL M01 or BIOL M02A

Class Hours: 2 lecture, 6 lab

Introduces functional anatomy of human organs and organ systems, emphasizing the human structure through demonstrations on human cadavers. Includes dissection of non-human mammals. ANAT formerly AN. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed—one course if combined with ANPH M01/M01L. GAN: BIOC 10

**ANAT M22A/B — 0.5 to 3 Units Each**

Independent Studies in Anatomy

Prerequisite: A previous course in Anatomy

Class Hours: 0.5 to 3 as arranged

Allows an independent project (approved by instructor and dean) to expand knowledge of anatomy through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. ANAT formerly AN. Applies to Associate Degree. Transfer credit: CSU.

Anatomy/Physiology Courses

**ANPH M01 to 3 Units**

Introduction to Human Anatomy and Physiology

Prerequisite: BIOL M01

Corequisite: ANPH M01L

Class Hours: 3 lecture

Introduces human anatomy and physiology covering major organ systems and their functions. Emphasizes microscopic and macroscopic functional morphology. ANPH formerly ANPHYS. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed—one course if combined with ANAT M01 or PHSO M01
ANPH M01L -- 2 Units
Introduction to Human Anatomy and Physiology Laboratory
Prerequisite: None
Corequisite: ANPH M01
Class Hours: 6 lab
Reinforces physiological principles of human anatomy, covering major
organ systems and their functions as well as microscopic and macroscopic
functional morphology. Uses cadavers for demonstrations. Requires
dissection of a cat. ANPH formerly ANPHY. Applies to Associate Degree. Transfer credit: CSU; UC. Maximum credit allowed - one course if combined with ANAT M01 or PHSO M01.

ANPH M01S -- 1 Unit
Anatomy and Physiology Study Session
Prerequisite: None
Class Hours: 1 lecture
Offers review and discussion of lectures, lab materials and tests to improve
comprehension and discussion. Emphasizes effective note-taking and
studying strategies. ANPH formerly ANPHY. Maximum credit allowed - one course if combined with ANAT M01 or PHSO M01.

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</table>
Botany Courses

BOT M01 -- 5 Units
General Botany
Prerequisite: None
Class Hours: 3 lecture, 6 lab
Introduces the anatomy and physiology of plants. Emphasizes the physical and chemical aspects of life, including cellular organization, reproduction, heredity, ecology, and plant kingdom survey. Applies to Associate Degree. Transfer credit: CSU; UC CAN BIOL 6

BOT M22A/B -- 0.5 to 3 Units Each
Independent Studies in Botany
Prerequisite: A previous course in Botany
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of botany through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

Microbiology Courses

MICR M01 -- 5 Units
Principles of Microbiology
Prerequisites: CHEM M12 or high school chemistry and BIOL M01 or BIOL M02A
Class Hours: 3 lecture, 6 lab
Reviews microbes, including their structure, physiology, growth, genetics and control. Emphasizes pathobiology, including immunity, pathogenicity and the control of infectious diseases. Lab focuses on solving unknowns and growth requirements of many bacteria. MICR formerly MICRO. Applies to Associate Degree. Transfer credit: CSU; UC CAN: BIOL 14

MICR M22A/B -- 0.5 to 3 Units Each
Independent Studies in Microbiology
Prerequisite: A previous course in Microbiology
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of microbiology through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. MICR formerly MICRO. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

Physiology Courses

PHSO M1 -- 5 Units
Human Physiology
Prerequisites: CHEM M12 or high school chemistry and BIOL M01 or BIOL M02A
Class Hours: 4 lecture, 3 lab
Introduces the functions and basic structure of the human organism as well as the underlying physiological principles. Illustrates basic principles and techniques through labs and demonstrations. PHSO formerly PHYS. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed—one course if combined with ANPH M01/ M01L. CAN: BIOL 12

PHSO M02 -- 3 Units
Physiology of Nutrition
Prerequisite: NT S M01
Class Hours: 3 lecture
Introduces the physiological and molecular aspects of nutrition, not the consumer aspects. Analyzes the roles of nutrition and nutrients in the body’s normal functioning. PHSO formerly PHYS. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed—one course if combined with NT S M01 or NT S M03

PHSO M22A/B -- 0.5 to 3 Units Each
Independent Studies in Physiology
Prerequisite: A previous course in Physiology
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of physiology through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. PHSO formerly PHYS. Applies to Associate Degree. Transfer credit: CSU.

Zoology Courses

ZOO M01 -- 5 Units
General Zoology
Prerequisite: None
Class Hours: 3 lecture, 6 lab
Introduces cell biology, genetics, evolution, taxonomy, physiology, behavior and ecology of animals. Applies to Associate Degree. Transfer credit: CSU; UC CAN: BIOL 4

ZOO M22A/B -- 0.5 to 3 Units Each
Independent Studies in Zoology
Prerequisite: A previous course in Zoology
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of zoology through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

Biotechnology

"Biotechnology is a promising young field that is predicted to be one of the pivotal forces of the 21st Century. Today it is saving lives through the development of breakthrough drugs and improving the quality of life with new agricultural and environmental products." Biotechnology Industry Organization

Career Opportunities

Aseptic Fill Assistants, Aseptic Fill Technicians, Manufacturing Technicians, Purification Technicians, Documentation Clerks, Validation Technicians, Assay Analysts, Instrumentation/Calibration Technician, Cell Culture & Fermentation Assistant, Cell Culture & Fermentation Technician, Quality Control Inspectors

Dean

Floyd Martin, Phone (805) 378-1459

Faculty

Full-Time

Maureen Harrigan

Counselors

Frank Bianchino, Mary Martin, Danita R. Redd
Biotechnology

Biotechnology Degree/Certificate (Occupational)

Associate in Science Degree

Certificate of Achievement

Biotechnology is a rapidly growing industry with projections for continued growth and exciting opportunities for employment. The Biotechnology Training Program at Moorpark College was designed by members of local industry (Baxter Healthcare Corporation and AMGEN) to provide students with unsurpassed technical experiences and training in manufacturing biotechnology. This curriculum focuses on the technologies and processes utilized by the manufacturing component of the biotechnology industry. Through a combination of basic science courses and laboratory instruction, students will acquire the skills and competencies needed for high level performance within this industry. Students have an option to receive a Certificate of Achievement in Biotechnology upon completion of the core courses or an Associate in Science Degree in Biotechnology if general education requirements are also fulfilled.

Preparation for the major:

- Mathematics - two years high school algebra or MATH M01 and M03.
- Chemistry - Students choosing CHEM M01A/M01B option need one-year high school chemistry or CHEM M12.
- English - ENGL M01A

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

Required Courses:

<table>
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<td>CHEM M01A/M01B General Chemistry I/II</td>
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<td>CIS M28</td>
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<td>MATH M15 Introductory Statistics</td>
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<td>MICR M01 Principles of Microbiology</td>
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<td>PHSO M01 Human Physiology</td>
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<tr>
<td>BIOT M02B Process Support</td>
<td>1.5</td>
</tr>
<tr>
<td>BIOT M02C Manufacturing Technology: Cell Culture, Microbial Fermentation</td>
<td>1.5</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>BIOT M02D Manufacturing Technology: Recovery, Purification</td>
<td>1.5</td>
</tr>
<tr>
<td>BIOT M02E Manufacturing Technology: Formulation, Fillings, Packaging</td>
<td>1.5</td>
</tr>
<tr>
<td>BIOT M02F Quality Control: Applied Analytical Methods</td>
<td>1.5</td>
</tr>
<tr>
<td>BIOT M02G Environmental Control</td>
<td>1.5</td>
</tr>
<tr>
<td>BIOT M02H Validation</td>
<td>1.5</td>
</tr>
<tr>
<td>TOTAL minimum units required in major area:</td>
<td>45 or 50</td>
</tr>
</tbody>
</table>

Recommended Course:

PHYS M01

Students desiring an A.S. Degree in Biotechnology must also complete general education requirements. See Degree Requirements and Transfer Information section for General Education requirements.

CHEM M01A and CHEM M01B should be taken by students planning to transfer.

First Semester

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CHEM M12 or CHEM M01A</td>
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<td>MATH M15</td>
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Second Semester

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<tr>
<td>ENGL M11</td>
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<td>BIOL M2A</td>
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Third Semester

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<tr>
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<td>BIOT M01</td>
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Fourth Semester

<table>
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<tbody>
<tr>
<td>BIOT M02A</td>
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<tr>
<td>BIOT M02B</td>
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<tr>
<td>BIOT M02C</td>
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<tr>
<td>BIOT M02D</td>
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</tr>
<tr>
<td>BIOT M02E</td>
<td>1</td>
</tr>
<tr>
<td>BIOT M02F</td>
<td>1</td>
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<tr>
<td>BIOT M02G</td>
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<td>BIOT M02H</td>
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<tr>
<td>PHSO M01</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td>13</td>
</tr>
</tbody>
</table>

Biotechnology Courses

BIOT M01 — 5 Units

Introduction to Biotechnology

Prerequisites: CHEM M13 or CHEM M01B, BIOT M02A and MATH M15

Class Hours: 3 lecture, 6 lab

Introduces biotechnology, focusing on lab safety, solution preparation, documentation, nucleic acid isolation, recombinant DNA techniques, electrophoresis, immunochemistry, techniques in tissue culture, protein isolation and purification, and the components and operations of an industrial biotechnology plant. BIOT formerly BIOTECH. Applies to Associate Degree.

BIOT M02A — 1 Unit

Plant Design

Prerequisites: BIOT M01 and MICR M01

Class Hours: 4 lecture, 12 lab for 2 weeks

Course one of eight sequential modules. Provides intensive instruction in the manufacturing component of the Biotechnology industry, covering General Building Design, Water Systems, HVAC, Utilities, Instrumentations, Process Control Systems and External Environmental Effects. BIOT formerly BIOTECH. Applies to Associate Degree.

BIOT M02B — 1 Unit

Process Support

Prerequisite: BIOT M02A

Class Hours: 4 lecture, 12 lab for 2 weeks

Course two of eight sequential modules. Provides intensive instruction in the manufacturing component of the Biotechnology industry, covering Small Parts and Labware Preparation, Labware Washing, Theory/Use of Autoclaves, CIE, SIP, Validation Testing, Preventive Maintenance, Facilities Sanitization, Raw Materials Logistics and Inventory Control. BIOT formerly BIOTECH. Applies to Associate Degree.
BIOT M02C — 1 Unit
Manufacturing Technology: Cell Culture, Microbial Fermentation
Prerequisite: BIOT M02B
Class Hours: 4 lecture, 12 lab for 2 weeks
Course three of eight sequential modules. Provides intensive instruction in the manufacturing component of the Biotechnology industry, covering Recombinant Proteins and Expression Systems, Host Selection, Selection Criteria for Large Scale, Scaleup Process, Mammalian and Microbial Systems, Cell Physiology/Metabolism, Cell Culture Techniques, Bioreactors, Fermentation, Protein Synthesis Induction, Media Considerations, Environmental Requirements, Testing, Monitoring, and Control, Fermentor Design and Trouble Shooting. BIOT formerly BIOTECH. Applies to Associate Degree.

BIOT M02D — 1 Unit
Manufacturing Technology: Recovery, Purification
Prerequisite: BIOT M02C
Class Hours: 4 lecture, 12 lab for 2 weeks
Course four of eight sequential modules. Provides intensive instruction in the manufacturing component of the Biotechnology industry, covering Principles of Protein Separations, Filtration, Tangential Flow Filtration, Clarification, UF/DE, Sterile Filtration, Centrifugation, Cell break, Chromatography, Process Design, Scaleup and Monitoring, Contaminants, Validation/Scaledown, Protein Refolding and Buffers. BIOT formerly BIOTECH. Applies to Associate Degree.

BIOT M02E — 1 Unit
Manufacturing Technology: Formulation, Filling, Packaging
Prerequisite: BIOT M02D
Class Hours: 4 lecture, 12 lab for 2 weeks
Course five of eight sequential modules. Provides intensive instruction in the manufacturing component of the Biotechnology industry, covering Aseptic Processing, Formulation, Dilutions, Potency Targeting, Sterile Filtration, Filtration Dynamics, Regulatory Agency Guidelines, Personnel Monitoring, Contamination Control, Filling, Lyophilization, Labelling and Packaging, Batch Records, Quality Parameters, and Complaints/Recall. BIOT formerly BIOTECH. Applies to Associate Degree.

BIOT M02F — 1 Unit
Quality Control: Applied Analytical Methods
Prerequisite: BIOT M02E
Class Hours: 4 lecture, 12 lab for 2 weeks

BIOT M02G — 1 Unit
Environmental Control
Prerequisite: BIOT M02F
Class Hours: 4 lecture, 12 lab for 2 weeks

BIOT M02H — 1 Unit
Validation
Prerequisite: BIOT M02G
Class Hours: 4 lecture, 12 lab for 2 weeks
Course eight of eight sequential modules. Provides intensive instruction in the manufacturing component of the Biotechnology industry, covering Installation Qualification, Operational Qualification, Performance Qualification, Process Qualification, Computer Validation, Cleaning Validation, Sterilizing Filter Validation, SPC and Continuous Process Validation. BIOT formerly BIOTECH. Applies to Associate Degree.

BIOT M80 — 1 to 4 Units
Internship in Biotechnology
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. BIOT formerly BIOTECH. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

BROADCASTING
See courses in Radio/Television

BUSINESS

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

Career Opportunities

Associate Degree Level

Accounting
Account Clerk, Accounts Payable Clerk, Accounts Receivable Clerk, Bank Teller, Billing Clerk, Bookkeeper, Payroll Clerk

Management
Administrative Assistant, Order Processor, Management Trainee, Production Clerk, Quality Control Clerk, Assistant Manager, Staff Assistant, Human Resources/Personnel Clerk, Small Business Owner

Marketing
Sales Representative, Market Research Assistant, Manufacturers Representative, Sales Trainee, Buyer Trainee/Assistant, Telemarketing Representative
Bachelor's Degree Level

Accounting (B.A./B.S. level)
Cost Accountant, Assistant Controller, Controller, Treasurer, Government Accountant, Budget Analyst, Credit Analyst, Appraiser, Staff Accountant, Securities Analyst, Management Accountant, Tax Specialist/Accountant, City or County Auditor, Revenue Agent, Bank Examiner, Credit Counselor, Estimator, Investment Planner, General Accountant, Financial Planner, Stock Broker

Management (B.A./B.S. level)
Administrative Assistant, Office Manager, Administrative Specialist, Human Resource Manager, Small Business Owner, Small Business Manager, Management Trainee, Supervisor, Area Manager, Store Manager, Branch Manager, Personnel Assistant

Marketing (B.A./B.S. level)
Product Planner, Advertising Assistant, Account Executive, Manufacturer's Representative, Communications Consultant, Advertising Manager, Merchandising Manager, Package Designer, Consumer Research Analyst, Industrial Marketing Manager, Customer Relations Manager, Entrepreneur, Market Specialist, Promotion Manager, Sales Executive, Sales Management, Sales Campaign Planner, Sales Representative, Advertiser, Retail Merchandiser, Product Specialist, Media Analyst

Dean
Floyd Thonnet, Phone (805) 378-1431

Faculty

Full-Time
Lori Bennett, Janice Feingold, Gary Iizuma, Thomas Spraggs, James Wyman, Kathleen Young

Part-Time
N. Dina Adler, Ronald Boots, Melvin England, Rollin Habeck, John Handlos, Richard Hofing, Thomas LaMantia, Terry Larsen, Brian McGillvray, Tim McGrath, Carl Olson, Stephanie Romero, Frances Sheppard, Timothy Weaver

Counselors
Denise Avila, Chuck Brinkman, Gail Goodman

Business Degree

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS M02A</td>
<td>3</td>
</tr>
<tr>
<td>BUS M02B</td>
<td>3</td>
</tr>
<tr>
<td>BUS M30</td>
<td>3</td>
</tr>
<tr>
<td>BUS M31</td>
<td>3</td>
</tr>
<tr>
<td>BUS M32</td>
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<tr>
<td>BUS M33</td>
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</table>

or

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS M34</td>
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</tr>
<tr>
<td>BUS M39</td>
<td>3</td>
</tr>
<tr>
<td>CIS M16</td>
<td>3</td>
</tr>
<tr>
<td>CIS M16L</td>
<td>1</td>
</tr>
</tbody>
</table>

Required Additional Courses:
Select one of the following options:

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS M32</td>
<td>3</td>
</tr>
<tr>
<td>BUS M51</td>
<td>3</td>
</tr>
<tr>
<td>BUS M54</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS M35</td>
<td>3</td>
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<tr>
<td>BUS M37</td>
<td>3</td>
</tr>
<tr>
<td>BUS M38</td>
<td>3</td>
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</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS M14</td>
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<tr>
<td>BUS M02C</td>
<td>3</td>
</tr>
<tr>
<td>BUS M08</td>
<td>3</td>
</tr>
<tr>
<td>BUS M09A</td>
<td>2</td>
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<tr>
<td>BUS M09B</td>
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</tbody>
</table>

TOTAL minimum units required in major area: 28-31

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

Associate of Arts Degree

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS M02A</td>
<td>3</td>
</tr>
<tr>
<td>BUS M02B</td>
<td>3</td>
</tr>
<tr>
<td>BUS M02C</td>
<td>3</td>
</tr>
<tr>
<td>BUS M39</td>
<td>3</td>
</tr>
<tr>
<td>CIS M16</td>
<td>3</td>
</tr>
<tr>
<td>CIS M16L</td>
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<tr>
<td>BUS M30</td>
<td>3</td>
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<tr>
<td>ECON M01</td>
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<td>ECON M02</td>
<td>3</td>
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<tr>
<td>BUS M34</td>
<td>3</td>
</tr>
<tr>
<td>BUS M33</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL minimum units required in major area: 25

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

Certificate of Achievement

This program offers basic training in accounting for 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
CIS M11 Basic Computer Keyboarding 1
CIS M14 10-Key Mastery on the Computer 1
CIS M15 Intro to the Personal Computer 1
BUS M02A Financial Accounting I 3
BUS M02B Financial Accounting II 3
BUS M08 Computerized Accounting 2
BUS M09A Spreadsheets in Financial Accounting 2
BUS M30 Intro to Business and Economics 3
BUS M39 Business Communication Techniques 3
CIS M16 Intro to Information Systems 3
CIS M16L CIS Introduction Lab 1
TOTAL minimum units required 23

Management Certificate

Certificate of Achievement
BUS M30 Introduction to Business and Economics 3
BUS M31 Introduction to Management 3
BUS M32 Small Business Management 3
BUS M34 Law Environment of Business 3
or
BUS M33 Business Law 3
BUS M39 Business Communication Techniques 3
BUS M51 Human Resource Management 3
BUS M54 Organizational Behavior 3
CIS M16/M16L Introduction to Information Systems/Lab 3/1
or
CIS M28 Microsoft Office 3
PSY M03 Psychology of Interpersonal Relationships 3
TOTAL minimum units required 27 or 28

Certificate of Completion
This Certificate of Completion in Management offers fundamental skills needed in today's business world. Successful completion of the program should qualify individuals for entry-level management positions.
BUS M30 Introduction to Business/Economics 3
BUS M31 Introduction to Management 3
BUS M32 Small Business Management 3
BUS M51 Human Resource Management 3
Total units required 12

Business Communication Certificate

Certificate of Completion
This Certificate of Completion in Business Communication offers skills necessary for individuals to become effective in business communication. Successful completion of the program should qualify individuals for entry-level management positions.
BUS M28 Business English 3
BUS M39 Business Communication Techniques 3
BUS M56 Business and Professional Speech 3
or
SPCH M01 Introduction to Speech 3
CIS M28 Microsoft Office 3
TOTAL units required 12

Marketing / Sales Certificate

Certificate of Achievement
This program offers training in marketing, sales, and advertising skills that individuals need to become effective Marketing or Sales Managers. Successful program completion will prepare students for entry-level positions in Marketing, Advertising, or Sales.
BUS M30 Intro to Business and Economics 3
BUS M37 Marketing 3
BUS M38 Advertising 3
BUS M35 Sales Techniques 3
BUS M31 Introduction to Management 3
BUS M34 Law Environment of Business 3
BUS M39 Business Communication Techniques 3
BUS M54 Organizational Behavior 3
GR M10 Intro to Graphics 3
CIS M28 Microsoft Office 3
or
CIS M16/M16L Intro to Information Systems/Lab 3/1
TOTAL units required 30 or 31

Marketing Certificate

Certificate of Completion
This certificate of completion in marketing offers the basic skills students need to seek entry-level positions in marketing or advertising.
BUS M30 Intro to Business and Economics 3
BUS M37 Marketing 3
BUS M38 Advertising 3
BUS M31 Introduction to Management 3
TOTAL units required 12

Small Business Certificate

Certificate of Completion
This certificate of completion in small business offers the basic skills students need to start a business or seek positions in small business.
BUS M32 Small Business Management 3
BUS M31 Introduction to Management 3
BUS M37 Marketing 3
CIS M28 Microsoft Office Professional 3
TOTAL units required 12

Business Courses
BUS M01 -- 3 Units
Preparation for Accounting
Prerequisite: MATH M09 or eligibility for MATH M01
Class Hours: Lecture
Covers fundamentals of double-entry bookkeeping and debit/credit method of recording transactions. Includes the full bookkeeping cycle from recording transactions to preparing financial statements. Emphasizes service and merchandising concerns operated as sole proprietorships. Applies to Associate Degree.
BUS M02A -- 3 Units
Financial Accounting I
Prerequisite: BUS M01
Recommended Preparation: MATH M03 and ENGL M02 or higher
Class Hours: 3 lecture
Examines financial accounting from both user and preparer perspectives, emphasizing public corporations. Explores what accounting is, why it is important, how it is used to make decisions, and how to record and present information. Focuses on operating activities. Covers accounting cycle, financial statements, internal control, and ethical issues. Required course for business majors. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed - one course when combined with BUS M02B. CAN: BUS 24A + 28 = CAN: BUS 2 (BUS M02A + M02B). BUS Seq. A (BUS M02A + M02B + M02C)

BUS M02B -- 3 Units
Financial Accounting II
Prerequisite: BUS M02A
Recommended Preparation: MATH M03 and ENGL M02 or higher
Class Hours: 3 lecture
Continues examining accounting related primarily to public corporations. Focuses on investing and financing. Explores fixed assets, long-term debt, stockholders' equity, intercompany investments, preparation/use of the Statement of Cash Flows, and financial statement analysis. Required course for business majors. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed - one course when combined with BUS M02A. CAN: BUS 2 (BUS M02A + M02B). BUS Seq. A (BUS M02A + M02B + M02C)

BUS M02C -- 3 Units
Managerial Accounting
Prerequisite: BUS M02B
Recommended Preparation: MATH M03
Class Hours: 3 lecture
Examines how managers make internal decisions. Focuses on cost terms/concepts, methods of accounting for manufacturing costs, cost behavior and estimation, cost analysis and control, variance analysis and responsibility accounting. Applies to Associate Degree. Transfer credit: CSU; UC: CAN: BUS 4 (BUS M02A + M02B + M02C). CAN: BUS SEQ A

BUS M07 -- 3 Units
Personal Income Tax Preparation
Prerequisite: None
Class Hours: 3 lecture
Examines federal taxation concepts related to personal income tax preparation and planning. Focuses on income inclusions/exclusions, itemized deductions, other deductions including gain/losses, business income/expenses, passive activities, property basis and capital gains/losses, tax credits and preparation of appropriate forms/schedules. Includes limited coverage of CA State tax regulations. Applies to Associate Degree. Transfer credit: CSU

BUS M08 -- 2 Units
Computerized Accounting
Prerequisite: BUS M02A or GSS M15
Class Hours: 1 lecture, 3 lab
Introduces the use of computers in accounting. Emphasizes recording transactions and preparing financial statements/reports. Focuses on the general ledger, depreciation, accounts receivable, accounts payable, and payroll. Applies to Associate Degree.

BUS M09A -- 2 Units
Spreadsheets in Financial Accounting
Prerequisite: Completion or concurrent enrollment BUS M02B or CIS M15
Class Hours: 1 lecture, 3 lab
Examines the use of spreadsheet software to record transactions, prepare financial statements and sort/analyze data. Focuses on such accounting functions as calculating depreciation, tracking and controlling accounts receivable and inventories, maintaining payroll records and analyzing financial statements. Introduces specialized accounting and financial functions. Applies to Associate Degree. Transfer credit: CSU

BUS M09B -- 1 Unit
Spreadsheets in Managerial Accounting
Prerequisite: BUS M09A
Corequisite: BUS M02C
Class Hours: 1 lecture, 3 lab for 8 weeks
Examines the use of spreadsheet software to prepare amortization schedules, track/allocate manufacturing costs, prepare budgets and calculate internal rates of return. Introduces specialized accounting and finance functions. Applies to Associate Degree. Transfer credit: CSU

BUS M22A/B -- 1 to 3 Units Each
Independent Studies in Business
Prerequisite: A previous course in Business
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of business through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU

BUS M28 -- 3 Units
Business English
Prerequisite: None
Class Hours: 3 lecture
Develops fundamentals and mechanics of business English usage, viewing grammar, sentence structure, punctuation, proofreading and written expression. Provides background for writing business letters and reports. Applies to Associate Degree. Transfer credit: CSU

BUS M30 -- 3 Units
Introduction to Business and Economics
Prerequisite: None
Recommended Preparation: ENGL M02 or higher
Class Hours: 3 lecture
Examines basic concepts and functions of business and the resulting application of economic principles to the operation of business. Explores business organization, ethics, finance, accounting, securities markets, supply and demand, the banking system, and international business through practical applications. (Same course as Economics M30). Applies to Associate Degree. Transfer credit: CSU; UC

BUS M31 -- 3 Units
Introduction to Management
Prerequisite: None
Recommended Preparation: BUS M30/ECON M30 and ENGL M02
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Introduces management concepts as applied to organization, team, and individual performance. Reviews organizational design, strategic planning, and the evolving role of management, leadership, and business ethics within an international environment. Applies to Associate Degree. Transfer credit: CSU
BUS M32 -- 3 Units
Small Business Management
Prerequisite: None
Recommended Preparation: BUS M30/ECON M30 and ENGL M02
Class Hours: 3 lecture
Focuses on establishing and managing a business, including planning, financing, staffing, marketing, site selection, budgeting, legal concerns and regulatory issues. Clarifies rewards and perils of owning a business. The Child Development Permit of Title 5 EC/CD programs requires this course for Site Supervisors (Option 1) and Program Directors. (Same course as Child Development M42B). Applies to Associate Degree. Transfer credit: CSU

BUS M33 -- 3 Units
Business Law
Prerequisite: None
Recommended Preparation: BUS M30/ECON M30 and ENGL M02
Class Hours: 3 lecture
Examines fundamental legal principles pertaining to business transactions. Focuses on contract law. Explores the origins of legal systems and procedures, including sales, torts, real and personal property, bailments and consumer protection. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed — one course if combined with BUS M34. CAN: BUS 8

BUS M34 -- 3 Units
Legal Environment of Business
Prerequisite: None
Recommended Preparation: BUS M30/ECON M30 and ENGL M02
Class Hours: 3 lecture
Examines the legal system and its impact on business. Explores such topics as constitutional and administrative law, contracts, torts, product liability and advertising, property, environmental law, securities regulation, debtor-creditor relations, employer-employee relations, domestic/international trade, restraint of trade and antitrust. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed — one course if combined with BUS M33

BUS M35 -- 3 Units
Sales Techniques
Prerequisite: None
Recommended Preparation: BUS M30/ECON M30
Class Hours: 3 lecture
Introduces principles of personal selling, including strategies for addressing long-term selling relationships, different personality types, commitments, objections and closing the sale. Applies to Associate Degree. Transfer credit: CSU

BUS M37 -- 3 Units
Marketing
Prerequisite: None
Recommended Preparation: BUS M30/ECON M30
Class Hours: 3 lecture
Introduces basic concepts and practices of modern marketing, including strategic planning, market research, buyer behavior, target marketing, new product development, pricing, advertising, and promotions. Applies to Associate Degree. Transfer credit: CSU

BUS M38 -- 3 Units
Advertising
Prerequisite: None
Recommended Preparation: BUS M30/ECON M30
Class Hours: 3 lecture
Examines the role of advertising in business and introduces an integrated approach to marketing communication. Reviews consumer analysis, ad media, budgeting, market research, layout, copy writing, typography, and advertising agencies and opportunities. Applies to Associate Degree. Transfer credit: CSU

BUS M39 -- 3 Units
Business Communication Techniques
Prerequisite: None
Recommended Preparation: ENGL M02 or BUS M38 and word processing skills
Class Hours: 3 lecture
Introduces effective business communication skills by preparing and analyzing business letters, reports and oral presentations. Emphasizes gathering, organizing, analyzing, and presenting information for decision making, interviewing and negotiating in a multicultural arena. Applies to Associate Degree. Transfer credit: CSU

BUS M42 -- 3 Unit
Business and Society
Prerequisite: None
Class Hours: 3 lecture
Examines issues such as corporate responsibility, career/job satisfaction, workplace ethics, technological change and environmental health concerns through the analysis of modern literature, art and film. (Same course as HUM M42). Applies to Associate Degree. Transfer credit: CSU

BUS M51 -- 3 Units
Human Resources Management
Prerequisite: None
Class Hours: 3 lecture
Examines how to obtain and develop an efficient work force. Includes human resource planning, recruitment, selection, placement, training, development, evaluation, termination, benefits and safety. Applies to Associate Degree. Transfer credit: CSU

BUS M54 -- 3 Units
Organizational Behavior
Prerequisite: None
Recommended Preparation: BUS M30/ECON M30 and BUS M31
Class Hours: 3 lecture
Examines individual and group behavior in the contemporary workplace. Explores the impact of personal and environmental factors on group dynamics. Focuses on selecting and applying appropriate behavior management techniques. Applies to Associate Degree. Transfer credit: CSU

BUS M56 -- 3 Units
Business and Professional Speech
Prerequisite: None
Class Hours: 3 lecture
Focuses on effective speaking skills needed in leadership positions, including an awareness of presentation techniques, group dynamics, argumentation and persuasion strategies, and organizational structure. Builds on individual needs and interests. (Same course as SPCH M56). Applies to Associate Degree. Transfer credit: CSU
BUS M60A-Z – 1 to 3 Units Each
Topics in Business
Prerequisites: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

BUS M60B — 2.5 Units
VITA (Tax Assistance)
Prerequisite: None
Class Hours: 8 lecture for 4 weeks
Reviews federal and state income tax returns and provides practical application by preparing returns at a tax assistance center. Does not apply toward a degree.

BUS M60E — 0.5 Unit
Sexual Harassment Seminar
Prerequisite: None
Class Hours: 8 lecture for one day
Shows employers how to comply with California sexual harassment laws, recognize conduct that is prohibited, investigate claims that do arise, and train employees to prevent harassment from occurring. Applies to Associate Degree. Transfer credit: CU

BUS M60F — 1 Unit
QuickCheck
Prerequisite: None
Recommended Preparation: CIS M17
Class Hours: 1 lecture/3 lab for four weeks
Introduces financial software package to organize personal finances by setting up electronic checkbook registers for tracking transactions. Includes creating reports and graphs, tracking investments, managing savings and monitoring cash flow. (Same course as CIS M60F). Applies to Associate Degree.

BUS M80 — 1 to 4 Units
Internship in Business
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

BUS M89A-Z — 0.5 to 3 Units Each
Institutes in Business
Prerequisite: None
Class Hours: As arranged
Series of special lectures and discussions on selected topics of interest in business/economics. Provided as needed. Only offered credit/no-credit. Applies to Associate Degree.

B U S I N E S S  I N F O R M A T I O N  S Y S T E M S
See courses in Computer Information Systems

C A R E E R  D E V E L O P M E N T
See courses in Personal Growth

C H E M I S T R Y
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

Most careers require bachelor's or graduate degree.

Dean
Floyd Martin, Phone (805) 378-1459

Faculty

Full-Time
Eugene Berg, Deanna Franke, Robert Keil, Richard Kurtik, David Murphy

Part-Time
Dennis Anderson, Victoria Cioti, Joe Escobar, Dennis Gehri, Gary Gilmartin, Vahak Harunian, Marjorie Leeraabhandh, William Lockman

Counselors
Letisha Mai, Danita R. Redd

■ Chemistry Degree
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 education requirements until their Junior and Senior years and by 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 that may be helpful towards the seeking of immediate employment.

Preparation for the Major:
- Mathematics — two years high school algebra plus trigonometry or MATH M03 and M07 or equivalent.
- Chemistry — one year high school chemistry or CHEM M12 or equivalent.

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

Required Courses:  
CHEM M01A ... General Chemistry I ........................................ 6  
CHEM M01B ... General Chemistry II ...................................... 6  
CHEM M08 ... Elementary Organic Chemistry ............................ 4  
CHEM M08L ... Organic Chemistry Lab .................................... 2  
MATH M16A ... Applied Calculus I ........................................... 3  
MATH M16B ... Applied Calculus II .......................................... 3  
PHYS M10A/M10AL General Physics I/Lab ................................ 5  
PHYS M10B/M10BL General Physics II/Lab ................................. 5  

TOTAL minimum units required in major area ......................... 34

Suggested Course Sequence:  
First Semester  
CHEM M01A ........................................................................... 6  
Total ...................................................................................... 6

Second Semester  
CHEM M01B ........................................................................... 6  
Total ...................................................................................... 6

Third Semester  
MATH M10A ........................................................................... 3  
PHYS M10A/M10AL ................................................................. 5  
Total ...................................................................................... 8

Fourth Semester  
CHEM M08 .............................................................................. 4  
CHEM M08L ............................................................................ 2  
MATH M16B ............................................................................ 3  
PHYS M10B/M10BL ................................................................. 5  
Total ...................................................................................... 14

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

Chemistry Degree

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 by 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 that may be helpful towards the seeking of immediate employment.

Preparation for the Major:
- Mathematics — two years high school algebra plus trigonometry or MATH M03 and M07 or equivalent.
- Chemistry — one year high school chemistry or CHEM M12 or equivalent.
- Physics — one-year high school physics or PHYS M10A or equivalent.

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

Required Courses:  
CHEM M01A ... General Chemistry I ........................................ 6  
CHEM M01B ... General Chemistry II ...................................... 6  
CHEM M08 ... Elementary Organic Chemistry ............................ 4  
CHEM M08L ... Organic Chemistry Lab .................................... 2  
MATH M25A ... Calculus with Analytic Geometry I ..................... 5  
MATH M25B ... Calculus with Analytic Geometry II ................... 5  
MATH M25C ... Calculus with Analytic Geometry III ................... 5  
PHYS M20A/M20AL Mechanics of Solids and Fluids/Lab .......... 5  
PHYS M20B/M20BL Electricity and Magnetism/Lab .................. 5  
PHYS M20C/M20CL Wave Motion, Heat, Optics & Modern Physics/Lab 5

TOTAL minimum units required in major area ......................... 48

Recommended Course: MATH M35

Suggested Course Sequence:  
First Semester  
CHEM M01A ........................................................................... 6  
MATH M25A ........................................................................... 5  
Total ...................................................................................... 11

Second Semester  
CHEM M01B ........................................................................... 6  
MATH M25B ........................................................................... 5  
PHYS M20A/M20AL ................................................................. 5  
Total ...................................................................................... 16

Third Semester  
MATH M25C ........................................................................... 5  
PHYS M20B/M20BL ................................................................. 5  
Total ...................................................................................... 10

Fourth Semester  
CHEM M08 .............................................................................. 4  
CHEM M08L ............................................................................ 2  
PHYS M20C/M20CL ................................................................. 5  
Total ...................................................................................... 11

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

Chemistry Courses

CHEM M1A -- 6 Units  
General Chemistry I  
Prerequisites: CHEM M12 or year of high school chemistry and MATH M03 or eligibility for MATH M05 or higher  
Class Hours: 5 lecture, 2 lab  
Introduces atomic theory and stoichiometry; thermodynamics; quantum theory and electronic structure of atoms; chemical bonding and molecular structure; physical behavior of gases; states of matter and phase equilibria; solutions; titrations and qualitative analysis. Lab provides use of analytical balance; spectroscopy; gravimetric and volumetric analysis; stoichiometry; thermochromy; solutions; titrations; qualitative analysis; colligative properties and distillations. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: CHEM 2, CAN CHEM SBQ A (CHEM M01A+M01B).
CHEM M07A -- 5 Units
General Organic Chemistry I
Prerequisite: CHEM M01B
Class Hours: 5 lecture, 6 lab
Focuses on molecular structure, chemical and physical properties, and the preparation of organic compounds with an emphasis on reaction mechanism, structure determination, synthesis, and applications. Lab introduces appropriate methods, techniques, and instrumentation for the synthesis purification and identification of organic compounds. First semester course for majors requiring full year of organic chemistry. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- 6 units if combined with CHEM M08 and M08L.

CHEM M07B -- 5 Units
General Organic Chemistry II
Prerequisite: CHEM M07A
Class Hours: 5 lecture, 6 lab
Continues study of functional groups such as carboxylic acids and their derivatives; carbonyls, amines and aromatics, emphasizing reaction mechanism, structure determination using nuclear magnetic resonance and infrared spectroscopy, synthesis and applications. Introduces study of biochemistry. Lab offers practical application of major concepts. Applies to Associate Degree. Transfer credit: CSU; UC.

CHEM M08 -- 4 Units
Elementary Organic Chemistry
Prerequisite: CHEM M01A or CHEM M12
Class Hours: 4 lecture
Introduces properties and reactions of carbon compounds, emphasizing structure and mechanism. Reviews synthesis and characterization of organic compounds, nomenclature, and biochemistry. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- 6 units if combined with CHEM M07A and M08L.

CHEM M08L -- 2 Units
Organic Chemistry Lab
Prerequisite: Completion of gr concurrent enrollment in CHEM M08
Class Hours: 6 lab
Requires the synthesis, characterization and spectroscopic analysis of organic compounds. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- 6 units if combined with CHEM M07A and M08.

CHEM M12 -- 5 Units
Introductory Chemistry I
Prerequisite: MATH M01 or eligibility for MATH M03 or higher
Class Hours: 4 lecture, 3 laboratory
Introduces 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 prerequisites for CHEM M01A and CHEM M13. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations -- no credit at UC if taken after CHEM M01A. CAN: CHEM 6, CHEM SEQ B (CHEM M12+M13).

CHEM M13 -- 5 Units
Introductory Chemistry II
Prerequisite: CHEM M12 or one year of high school chemistry
Class Hours: 4 lecture, 3 lab
Introduces fundamental concepts of organic and biochemistry, including structure, nomenclature and reactions; metabolism of carbohydrates, lipids, proteins, and nucleic acids; and kinetics, equilibria, electrochemistry. Explores applications to agriculture, earth science, nutrition, and health sciences. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations -- no credit at UC if taken after CHEM M08, M09. CAN: CHEM 8, CHEM SEQ B (CHEM M12+M13).

CHEM M22A/B -- 0.5 to 3 Units Each
Independent Studies in Chemistry
Prerequisite: A previous course in Chemistry
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of chemistry through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

CHEM M80 -- 1 to 4 Units
Internship in Chemistry
Prerequisite: Completion of gr concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-4400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; credit limitations.

CHICANO STUDIES

This curriculum examines Chicano ethnic experiences 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 provides a baseline for further study of other ethnic groups.

Career Opportunities

Most careers require bachelors or graduate degree.

Diplomat Corps, Foreign Office, Foreign Correspondent, News Analyst, Writer, Import-Export Trader, Social Worker, Travel Guide, Translator, Company Representative, Advertising, Community Development
**Chicano Studies**

**Dean**

Al Nordquist, Phone (805) 378-1445

**Faculty**

**Full-Time**

Tomás Sanchez

**Counselor**

Ofelia Romero-Motlagh

**Chicano Studies Courses**

**CHST M01 -- 3 Units**

_The Chicano in Contemporary Society_

Prerequisite: None

Class Hours: 3 lecture

Explores the socioeconomic and political problems confronting the Chicano, emphasizing proposed solutions, similarities with other groups and the effects of social institutions on ethnic communities. (Same course as SOC M06). **CHST formerly ChSt. Applies to Associate Degree. Transfer credit: CSU; UC**

**CHST M02 -- 3 Units**

_Chicano Culture_

Prerequisite: None

Class Hours: 3 lecture

Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.

Focuses on the social and cultural heritage of middle American Chicano civilizations from the Spanish conquest to the present, emphasizing contributions in the fine arts, literature, and oral history. (Same course as ANTH M04). **CHST formerly ChSt. Applies to Associate Degree. Transfer credit: CSU; UC**

**CHST M03 -- 3 Units**

_Chicana Issues / La Mujer_

Prerequisite: None

Class Hours: 3 lecture

Explores race, class, and gender issues for Chicanas and other Latina women within a sociological framework. Focuses on class distinctions, ethnic/racial and gender identities, division of labor in various areas, and social conditioning regarding education, health, and religion. **CHST formerly ChSt. Applies to Associate Degree. Transfer credit: CSU; UC**

**CHST M04 -- 3 Units**

_History of the Southwest_

Prerequisite: None

Class Hours: 3 lecture

Introduces history of the Chicano (pre-Columbian to present), emphasizing the Mexican settlement of the American Southwest as well as the development and contributions of the Chicano to that area. (Same course as HIST M04). **CHST formerly ChSt. Applies to Associate Degree. Transfer credit: CSU; UC**

**CHST M08 -- 3 Units**

_Political Patterns in the U.S._

Prerequisite: None

Class Hours: 3 lecture

Introduces fundamental principles of U.S. government, focusing on the state and local governments of the Southwest. Emphasizes the legislative process, political parties, pressure groups, local implementation policies and the political participation of Mexican-Americans. (Same course as Political Science M08). **CHST formerly ChSt. Applies to Associate Degree. Transfer credit: CSU; UC**

**Child Development**

**CHST M22A/B -- 1 to 3 Units each**

_Independent Studies -- The Chicano_

Prerequisite: A previous course in Chicano Studies

Class Hours: 1 to 3 as arranged

Allows an independent project (approved by instructor and dean) to expand knowledge of Chicano Studies through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. **CHST formerly ChSt. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.**

**CHST M80 -- 1 to 4 Units**

_Internship in Chicano Studies_

Prerequisite: Completion of or concurrent enrollment in one course in the discipline

Class Hours: 5 to 20 lab as arranged

Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. **CHST formerly ChSt. Applies to Associate Degree. Transfer credit: CSU, credit limitations.**

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**CHILD DEVELOPMENT**

The Child Development Program prepares students for an A.S. Degree in Child Development or for completion of certificates in Early Childhood Education, School Age Child Care, and the Child Development Permit levels of: Assistant, Associate Teacher, Teacher, Master Teacher and Site Supervisor. Students develop knowledge of subject matter and skills needed for success in transferring to a college or university as well as success in a variety of vocational areas. This program will be of interest to students who seek employment in any variety of positions such as teaching in or administering a preschool, working as playground or recreation supervisors, facilitating programs as parent educators and other positions involving work with children and their families.

**Career Opportunities**

Child development program teachers, Child development program directors, Infant caregivers, School-age program personnel, Kindergarten to grade 3 teachers and teaching assistant, Family daycare providers, Bilingual/bicultural program specialists, City/county school child development administrators, Language development specialists, Dance/motor development therapists, Curriculum developers, Child abuse prevention personnel, Children's resource and referral agency personnel, Child/family public policy advocates, Employer sponsored childcare consultants, Parent Educator, Children's book author, Children's television producer, Children's toy designer / marketer

**Dean**

Judith Gerhart, Phone (805) 378-1402

**Faculty**

**Full-Time**

Linda Cravens, Jennifer Lynch

**Part-Time**

Rosalie Bergman, Dianne Cohn, Bonnie Hoult, Carol Howell, Jody Miller, Kathleen Reiter, Christabel Schadt, Dianne Smith, Kathleen van Antwerp

**Counselors**

Mike Johnson, Ofelia Romero-Motlagh
Child Development

Child Development Degree

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

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD M30</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>CD M32</td>
<td>Child Nutrition, Health &amp; Safety</td>
<td>2</td>
</tr>
<tr>
<td>CD M35</td>
<td>Equity Issues in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD M38</td>
<td>Practicum I - Observation</td>
<td>3</td>
</tr>
<tr>
<td>CD M39A</td>
<td>Practicum II - Participation</td>
<td>3</td>
</tr>
<tr>
<td>CD M39B</td>
<td>Practicum III - Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>CD M40</td>
<td>Child/Family/Community</td>
<td>3</td>
</tr>
<tr>
<td>CD M41</td>
<td>Programs in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD M43</td>
<td>ECE Adult Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Additional Courses:
Select six (6) units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD M51</td>
<td>Music in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD M52</td>
<td>Art in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD M53</td>
<td>Science and Math in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD M54</td>
<td>Language Arts in ECE</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL minimum units required in major area** 32

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

Courses required by State of California for minimum 12 units for entry-level employment (Title 22):

<table>
<thead>
<tr>
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<tbody>
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<tr>
<td>CD M40</td>
<td>Child/Family/Community</td>
<td>3</td>
</tr>
<tr>
<td>CD M41</td>
<td>Programs in ECE</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three (3) units from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD M51</td>
<td>Music in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD M52</td>
<td>Art in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD M53</td>
<td>Science &amp; Math in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD M54</td>
<td>Language Arts in ECE</td>
<td>3</td>
</tr>
</tbody>
</table>

**Child Development Permits**

The following Certificates of Achievement apply to students who may seek employment in Title 5 or federally funded programs such as Head Start, State Preschool or Migrant Preschool Programs. Students completing the Child Development Permits listed must meet all requirements and apply for the permit through the California Commission on Teacher Credentialing. The Certificates of Completion or Achievement cover only the coursework required at each permit level. Students must complete additional experience requirements before making application to the state for any Child Development permits.

Child Development Assistant Permit

Certificate of Completion
This permit level will authorize the holder to care for and assist in the development and instruction of children in a child care setting under the supervision of a Child Development Associate Teacher level or above.

Requirements for Certificate:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
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<td>CD M30</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td>CD M41</td>
<td>Programs in ECE</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL minimum units required** 6

Child Development Associate Teacher Permit

Certificate of Completion
This permit will authorize the holder to provide service in the care, development, and instruction of children in a child care and development program and to supervise a Child Development Assistant.

Requirements for Certificate:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD M30</td>
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<td>CD M40</td>
<td>Child, Family and Community</td>
<td>3</td>
</tr>
<tr>
<td>CD M41</td>
<td>Programs in ECE</td>
<td>3</td>
</tr>
</tbody>
</table>

Plus one of the following:

<table>
<thead>
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<th>Units</th>
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</thead>
<tbody>
<tr>
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<td>Music in ECE</td>
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<td>Art in ECE</td>
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<td>CD M53</td>
<td>Science and Math in ECE</td>
<td>3</td>
</tr>
<tr>
<td>CD M54</td>
<td>Language Arts in ECE</td>
<td>3</td>
</tr>
</tbody>
</table>

Also required before application for Child Development Associate Teacher Permit: Completion of 50 days of experience in an instructional capacity in a child care and development program, working at least 3 hours per day within the last 2 years. (Experience may include paid and/or volunteer work.)

54
Child Development Teacher Permit

Certificate of Achievement
This permit level authorizes the holder to provide services in the care, development, and instruction of children in a child development program, and supervise a Child Development Associate Teacher, a Child Development Assistant, and an aide.

Requirements for Certificate:
Option 1 (All of A and B below)
A. Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD M30</td>
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<tr>
<td>CD M38</td>
<td>Practicum I - Observation</td>
</tr>
<tr>
<td>CD M40</td>
<td>Child, Family and Community</td>
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<td>Programs in ECE</td>
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<tr>
<td>CD M39A</td>
<td>Practicum II - Participation</td>
</tr>
<tr>
<td>CD M39B</td>
<td>Practicum III - Field Experience</td>
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<tr>
<td>CD M51</td>
<td>Music in ECE</td>
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<td>CD M52</td>
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<td>CD M53</td>
<td>Science and Math in ECE</td>
</tr>
<tr>
<td>CD M54</td>
<td>Language Arts in ECE</td>
</tr>
</tbody>
</table>

B. Completion of sixteen diversified semester units in general education (at least one course in each of the following areas: Humanities and/or Fine Arts; Social Sciences; Math and/or Science; and English Language Arts).

TOTAL minimum units required: 24

B. Completion of sixteen diversified semester units in general education (at least one course in each of the following areas: Humanities and/or Fine Arts; Social Sciences; Math and/or Science; and English Language Arts).

TOTAL minimum units required: 24

Child Development Master Teacher Permit

Certificate of Achievement
Requirements for Certificate: (All of A, B, C, and D)
A. Courses

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CD M30</td>
<td>Human Development</td>
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<tr>
<td>CD M41</td>
<td>Programs in ECE</td>
</tr>
<tr>
<td>CD M40</td>
<td>Child, Family and Community</td>
</tr>
<tr>
<td>CD M38</td>
<td>Practicum I - Observation</td>
</tr>
<tr>
<td>CD M39A</td>
<td>Practicum II - Participation</td>
</tr>
<tr>
<td>CD M39B</td>
<td>Practicum III - Field Experience</td>
</tr>
<tr>
<td>plus two of the following:</td>
<td></td>
</tr>
<tr>
<td>CD M51</td>
<td>Music in ECE</td>
</tr>
<tr>
<td>CD M52</td>
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<td>CD M54</td>
<td>Language Arts in ECE</td>
</tr>
</tbody>
</table>

B. Completion of sixteen diversified semester units in general education (at least one course in each of the following areas: Humanities and/or Fine Arts; Social Sciences; Math and/or Science; and English Language Arts).

TOTAL minimum units required: 24

B. Completion of six additional semester units in an area of specialization which may include:

C. Degree must include completion of six additional semester units of course work in the administration and supervision of child care and development programs.

Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD M42A</td>
<td>Administration in ECE-1</td>
</tr>
<tr>
<td>CD M42B</td>
<td>Small Business Administration</td>
</tr>
</tbody>
</table>

D. Degree must include completion of two semester units of CD M46 - Adult Supervision in ECE/CD Classrooms.

Also required before application for Child Development Site Supervisor Permit: Completion of 350 days of experience in an instructional capacity in a child care and development program, working at least three hours per day within the last four years. (Experience may include paid and/or volunteer work.)
Child Development Courses

CD M22A/B – 1 to 3 Units Each
Independent Studies in Child Development
Prerequisite: A previous course in Child Development
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of child development through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU

CD M30 – 3 Units
Human Development
Prerequisite: None
Class Hours: 3 lecture
Introduces human development from the prenatal period to adolescence, emphasizing cognitive, biobehavioral and psychosocial development, and research and theory to current issues and challenges regarding the developing human. Applies to Associate Degree. Transfer credit: CSU; UC; GEC: HRC 14 (combined with PYS M07 - maximum credit one course).

CD M31 – 3 Units
Infant Studies
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Explores infant/toddler care based on developmental need, emphasizing curriculum planning, environment design and observation. Also addresses children with special needs and diverse cultural backgrounds. Applies to Associate Degree. Transfer credit: CSU

CD M32 – 2 Units
Child Nutrition, Health & Safety
Prerequisite: None
Class Hours: 2 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 30 contact hours. Explores health protection and resources provided by the home, school, and community, emphasizing prevention of infectious disease, preventative healthcare practices, prevention policies, injury prevention, disaster preparedness, nutrition, child abuse identification and prevention, children with special needs, and care of the mildly ill child. Complies with current legal statutes. Requires taking pediatric first aid and pediatric CPR. Applies to Associate Degree. Transfer credit: CSU

CD M36 – 3 Units
Equity Issues in ECE
Prerequisite: None
Class Hours: 3 lecture
Introduces equity issues, including family lifestyle, economics, gender, special needs and culture/ethnicity. Applies to Associate Degree. Transfer credit: CSU

CD M38 – 3 Units
Practicum 1 - Observation
Prerequisite: None
Recommended Preparation: Completion of or current enrollment in CD M30
Class Hours: 2 lecture, 3 lab
Introduces child observation techniques based on theories of Human Development. Requires use of specific tools to observe children’s development, activities, classroom materials and environment in both the campus Child Development Center and with n other community-based programs. Applies to Associate Degree. Transfer credit: CSU

CD M39A – 3 Units
Practicum 2 - Participation
Prerequisite: None
Recommended Preparation: CD M30
Class Hours: 2 lecture, 3 lab
Introduces procedures and practices for teaching young children in a range of settings: family day-care, pre-schools, center-based childcare or Head Start Centers. Offers practical experience applying theories of human development while teaching in the Child Development Center. Requires proof of negative TB clearance as well as Fingerprint/FBI/Child Abuse Index clearances. Applies to Associate Degree. Transfer credit: CSU

CD M39B – 3 Units
Practicum 3 - Field Experience
Prerequisites: CD M30, CD M38 and CD M39A
Class Hours: 2 lecture, 3 lab
Expands knowledge of human development, emphasizing Piaget’s cognitive theories, observation techniques, and assessment tools. Includes guided student teaching. Requires three hours a week student teaching in a community program, allowing further application of theory to practical situations. Requires proof of negative TB clearance as well as Fingerprint/FBI/Child Abuse Index clearances. Applies to Associate Degree. Transfer credit: CSU

CD M40 – 3 Units
Child / Family / Community
Prerequisite: None
Class Hours: 3 lecture
Facilitates awareness of the interaction and interdependency of home, school, and community by introducing methods of advocacy, exploration of community resources and application of theory to contemporary social issues. Applies to Associate Degree. Transfer credit: CSU

CD M41 – 3 Units
Programs in ECE
Prerequisite: None
Recommended preparation: CD M30
Class Hours: 3 lecture
Reviews history and philosophies of early childhood education, including developmentally appropriate practices, career paths, teacher’s role, learning theories, classroom discipline, curriculum development and lesson plans. Applies to Associate Degree. Transfer credit: CSU

CD M52A – 3 Units
Administration and Supervision in ECE - 1
Prerequisites: CD M30, CD M40, CD M41; and one of the following:
CD M51, M52, M53 or M54
Class Hours: 3 lecture
Introduces principles and practices of administering a child development program, emphasizing administrative needs; personnel and staffing parameters; parent/teacher relations and education; licensing requirements; professional development; grant and proposal writing; specific personnel management skills; and communication. Course required by the Child Development Permit for Title 5 ECE/CD programs for Site Supervisors (Option 1) and Program Directors. Applies to Associate Degree. Transfer credit: CSU
CD M42B — 3 Units
Small Business Management
Prerequisite: None
Recommended Preparation: BUS/ECON M30 and completion of ENGL M02
Class Hours: 3 lecture
Focuses on establishing and managing a business, including planning, financing, staffing, marketing, site selection, budgeting, legal concerns and regulatory issues. Offers realistic understanding of owning a business. Course required by the Child Development Permit for Title 5 ECE/CD programs for Site Supervisors (Option 1) and Program Directors. (Same course as BUS M32). Applies to Associate Degree. Transfer credit: CSU

CD M43 — 3 Units
Adult Communications
Prerequisite: None
Class Hours: 3 lecture
Introduces effective communication between parents, teachers and caregivers, reviewing impact of significant adults on children, historical perspective of parental involvement, and facilitation of communication with parents. Emphasizes parent-teacher conferencing techniques and procedures to develop a positive working relationship. Applies to Associate Degree. Transfer credit: CSU

CD M44 — 2 Units
Parent Education
Prerequisite: None
Class Hours: 2 lecture
Introduces skills and resources that promote more effective parent and child interactions, applying developmental theories, principles and techniques. Reviews culture, race, ethnicity, family structures, economics, class, gender and special needs equity issues. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

CD M45 — 3 Units
School Age Programs
Prerequisite: None
Class Hours: 3 lecture
Introduces the care of school age children, providing practical background and experience through before-and-after school and recreation programs. Emphasizes developmentally appropriate curriculum. Includes information pertaining to family and school cooperation and community resources. Applies to Associate Degree. Transfer credit: CSU

CD M46 — 2 Units
Adult Supervision in ECE/CD Classrooms
Prerequisites: CD M30, CD M40, CD M41 and one of the following: CD M51, M52, M53 or M54
Class Hours: 2 lecture
Introduces methods and principles of supervising student teachers, assistant teachers, parents and volunteers. Emphasizes varying strategies to help address needs of children, parents and staff. Course required by the Child Development Permit for Title 5 ECE/CD programs for Master Teachers, Site Supervisors and Program Directors. Applies to Associate Degree. Transfer credit: CSU

CD M51 — 3 Units
Music in ECE
Prerequisite: None
Class Hours: 3 lecture
Introduces creative movement, dance rhythm, and song as essential components of the physical, social, emotional, creative and cognitive development of young children. Focuses on critical analysis of developmentally appropriate activities and appreciation of diversity. Encourages integration and application of music throughout the curriculum. Transfer credit: CSU

CD M52 — 3 Units
Art in ECE
Prerequisite: None
Class Hours: 3 lecture
Introduces developmentally appropriate art curriculum and reviews art as an essential component of physical, social, emotional, creative and cognitive growth. Focuses on integration, presentation and evaluation of art activities, media and resources throughout the curriculum. Applies to Associate Degree. Transfer credit: CSU

CD M53 — 3 Units
Science & Math in ECE
Prerequisite: None
Class Hours: 3 lecture
Introduces theoretically sound and developmentally appropriate science and math curriculum. Emphasizes the facilitation of the inquiry approach to experiencing science and math as well as the development and evaluation of curricular materials. Applies to Associate Degree. Transfer credit: CSU

CD M54 — 3 Units
Language Arts in ECE
Prerequisite: None
Class Hours: 3 lecture
Introduces current research in children's literature and language arts and demonstrates theoretical classroom applications. Emphasizes evaluation of developmentally appropriate experiences and materials that support language as a tool allowing communication, creativity, and logical thinking. Applies to Associate Degree. Transfer credit: CSU

CD M60A-Z — 1 to 3 Units Each
Topics in Child Development
Prerequisites: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

CD M60A — 1.5 Units
Toddlers Program
Prerequisite: None
Class Hours: 1.5 lecture
Provides an environment to study and observe toddlers in a naturalistic setting. Focuses on developmental stages, issues, concerns, educational programs, and developmentally appropriate materials. Registration of children for this class is done through the Child Development Center. All children must meet California immunization guidelines. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU
CD M60B -- 3 Unit
Behavior Management in ECE
Prerequisite: None
Class Hours: 16 lecture total
Introduces behavior management techniques that integrate sound developmental theory with practical application in a variety of early childhood settings. Intended for majors or current care-givers. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

CD M60C -- 1 Unit
Developing Cognitive Grouptimes in ECE
Prerequisite: None
Class Hours: 16 lecture total
Introduces developmental sequences for a variety of cognitive group experiences introduced in early childhood programs. Intended for majors or current care-givers. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

CD M60D -- 1 Unit
Exploring in ECE - Part 1
Prerequisite: None
Class Hours: 16 lecture total
Introduces integrated, developmentally appropriate experiential curriculum, emphasizing free exploration techniques, cooperative learning, center set-up, and implementation and individualization in providing learning experiences. Includes Rocks, Dinosaurs, Bubbles, Rainbows, Mixing Color, Mathematics Games, Fingerprints and Cooking and other Chemical Changes. Intended for majors or current care-givers. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

CD M60E -- 1 Unit
Exploring in ECE - Part 2
Prerequisite: None
Recommended Preparation: CD M60D
Class Hours: 16 lecture total
Expands integrated, developmentally appropriate experiential curriculum, emphasizing free exploration techniques, cooperative learning, center set-up, and implementation and individualization in providing more advanced learning experiences. Includes Shadows, Environment, Rivers, Optical, Rocks, Salt, Erosion, Friction, Ants, Insects, Mapping, Blocks, and Conservation Experiences. Intended for majors or current care-givers. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

CD M60H -- 1 Unit
Parenting Young Children
Prerequisite: None
Class Hours: 16 lecture total
Introduces sound parenting principles geared especially to the challenge of parenting babies, toddlers, and preschoolers. With the guidance of a competent instructor, parents interact with the materials and each other to understand children's needs and behaviors. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU

CD M60J -- 0.5 Unit
Child Development Permit: Professional Growth Advisor Training
Prerequisite: None
Class Hours: 8 lecture for 1 week
Introduces methods and principles of being a Professional Growth Advisor for the Child Development Permit. Emphasizes the formulation and implementation of the Professional Growth Plan as directed by the Commission on Teacher Credentialing. Stresses the mentoring role of the Professional Growth Advisor and includes setting long-range goals, recognizing and planning acceptable activities to meet goals, and completing and filing official paperwork required by the Commission. Completing course qualifies individuals to become Professional Growth Advisor, if they also hold teacher permit and have more than three years of experience teaching or serving as a director in a child development program. Applies to Associate Degree. Transfer credit: CSU

CD M80 -- 1 to 4 Units
Internship in Child Development
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

CD M89A-Z -- 0.5 to 3 Units Each
Institutes in Child Development
Prerequisite: None
Class Hours: As arranged
Short workshop series designed for preschool and day-care personnel. Increases effective communication with children, parents, staff and community agencies through increased understanding and acquired skills. Only offered credit/no-credit. Applies to Associate Degree.

CD M89A -- 0.5 Unit
Movement and Rhythm for Early Childhood
Prerequisite: None
Class Hours: 8 hours total
Introduces music, movement and rhythm theories and activities for the preschool child. Explores age-appropriate activities for the physical, cognitive, and psychosocial domains of development.

CD M89C -- 0.5 Unit
Practical Ideas for Teaching Young Children
Prerequisite: None
Class Hours: 8 hours total
Develops knowledge base as well as practical realistic steps to successfully work with children, whether in the home or community setting. Intended for preschool and day-care personnel but appropriate for parents as well. Requires practical application.
# Computer Courses at Moorpark College

## Computer Information Systems

### Business Support Systems

**Career Opportunities**
- Administrative Assistant, Executive Assistant, Office Coordinator, Administrative Support Staff, Administrative Secretary, Customer Service Rep., Data Entry Operator, Computer Operator, Computer Trainer, Receptionist, Word Processor, Personal Use, etc.

## Computer Science Network

### Information Systems

**Career Opportunities**
- Systems Analyst, Network Administrator, Computer Consultant, Computer Network Technician, Customer Service Support Tech, Office Systems Manager, Data Processing Manager, etc.

### CS + CNSE

**Career Opportunities**
- Computer Programmer, Software Engineer, System Designer, Operational Research Manager, Computer Lab Technician, Scientific Programmer, etc.

## Keyboarding Classes

- CIS M10 Keyboarding Review
- CIS M11 Basic Computer Keyboarding
- CIS M12 Intermediate Computer Keyboarding
- CIS M13 Computer Keyboarding / Speed Building
- CIS M14 10-Key Master on the Computer

## Introductory Classes

- CIS M15 Introduction to the Personal Computer
- CIS M17 Introduction to Windows 98

## Application Classes

- CIS M20 Microsoft Word Part 1
- CIS M21 Microsoft Word Part 2
- CIS M23 Microsoft Word Part 3
- CIS M24 Microsoft Excel Part 1
- CIS M25 Microsoft Excel Part 2
- CIS M26 Microsoft Access
- CIS M27 Microsoft Powerpoint
- CIS M28 Microsoft Office

## Internet/Special Classes

- CIS M60C Internet & World Wide Web
- CIS M60D Web Page Design

## Introductory Classes

- CIS M16 Introduction to Information Systems Programming Classes
- CIS M40 Windows Programming: Visual Basic 1
- CIS M41 Windows Programming: Visual Basic 2

## Networking/Systems Analysis Classes

- CIS M50 Introduction to Local Area Networks
- CIS M51 Introduction to Novell Client/Server
- CIS M52 Introduction to Windows NT Workstation/Server
- CIS M53 Systems Analysis and Design

## Internet/Special Classes

- CIS M22A/B Independent Studies in Information Systems
- CIS M60C Internet & World Wide Web
- CIS M60D Web Page Design

## Introductory Classes

- CS M01 Fundamentals of Computers and Programming/C
- CS M02 Introduction to UNIX and C
- CS M03 Introduction to Computer Hardware and Systems Software

## Programming Classes

- CS M10A Introduction to Programming with C
- CS M10B Object-Oriented Programming Using C++
- CS M10C Windows Programming Using C++
- CS M10J Java Programming Fundamentals
- CS M118 Computer Programming - FORTRAN
- CS M19 Software Engineering with Ada
- CS M20 Data Structures and Program Design
- CS M30 Assembly Language
- CS M40 Computer Architecture
- CS M50 Files and Data Bases
- CS M60 Concepts of Programming Languages

## Networking/Special Classes

- CNSE M30 Implementing and Supporting MS Windows NT Workstation
- CNSE M31 Implementing and Supporting MS Windows NT Sever
- CNSE M32 Networking Essentials
- CNSE M33 Implementing and Supporting MS Windows 95
- CNSE M34 Internetworking with MS TCP/IP on MS Windows NT
- CNSE M35 System Administration of MS SQL Server 6.0

*Please see page 61 for certificates available in these areas.*
Communications

Communications is a broad term that describes a general field of study. Moorpark College offers three primary career paths within communications in addition to preparation in four related career options. Here is a brief comparison of the three primary career paths:

**Communications**

An interdisciplinary academic program.

Introduces students to the field of study and professions within communications.

Includes an introduction to the core disciplines within communications such as English, speech, graphics, journalism, and radio/television.

Prepares students for transfer to university communications programs.

Interdisciplinary approach enhances students' flexibility for transfer and professional development.

See the Associate of Arts Degree requirements below.

**Radio/Television**

Both an occupational and transfer program.

Trains students to work in education or commercial radio or television and related fields such as motion pictures, promotion, and post-production.

Includes broadcast journalism, writing, production techniques, performance, advertising, and management.

Includes local internship opportunities in radio/television, motion pictures, promotion, and post-production.

Academic focus is the study of mass communications.

See the Associate of Science Degree requirements on page 23.

**Journalism**

Both an occupational and transfer program.

Trains students to work at entry-level as editorial clerk, reporter, lay-out workers, advertising assistants, and production related jobs.

Includes new writing and reporting, copy editing, newspaper production, broadcast journalism, and public relations.

Includes local internship opportunities at newspapers.

Academic focus is the study of the mass communications.

See the Associate of Science Degree requirements on page 23.

**Dean**

Sid Adler, Phone (805) 378-1443

**Communications Degree**

**Associate in Arts Degree**

This program will provide students with a basic understanding of communications course offerings and professions in preparation for transfer to most universities and professional schools. The interdisciplinary approach further enhances students' flexibility for transfer and professional development.

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**Computer Information Systems**

Core Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL M01*</td>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>SPCH M01*</td>
<td>Introduction to Speech</td>
<td>3</td>
</tr>
<tr>
<td>BUS M37</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>or BUS M38</td>
<td>Advertising</td>
<td>3</td>
</tr>
<tr>
<td>GR M10</td>
<td>Intro to Graphics</td>
<td>3</td>
</tr>
<tr>
<td>GR M20</td>
<td>Macintosh and IBM Operating Systems/Graphics</td>
<td>3</td>
</tr>
<tr>
<td>JOUR M03/RT M01*</td>
<td>Mass Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>JOUR M02*</td>
<td>News Reporting and Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHOT M01A*</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td>RT M02A</td>
<td>TV Studio Operations</td>
<td>3</td>
</tr>
<tr>
<td>RT M07A</td>
<td>Radio Production Workshop</td>
<td>3</td>
</tr>
<tr>
<td>RT M05/ENGL M05</td>
<td>Radio Television Script Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

* These courses can count toward general education requirements.

**An additional six (6) units from one of the following areas:**

Graphics, Journalism, Photography, or Radio-Television

**Recommended Courses:**

HIST M05, M07A, M07B; HUM M03, M04; JOUR M12, M14, POLS M01, M02, M03; SPCH M03

---

**Career Opportunities**


**Dean**

To be announced, Phone (805) 378-1572

**Faculty**

**Full-Time**

Shay Collier, Mary Mills, Kathleen Young

**Part-Time**

Stephen Abrams, Ronald Barry, Bruce Bassin, Guy Campbell, Joane Cantrell, Chita Chandavarkar, Mary Stepes-Cole, Barbara Crippen, Maria Ellis, Victor Jadson, Cathy Kriss, Larry Lace, Marjean Lewis, Kelly Macone, Delores Moon, Hank Moon, Lorraine Shinder, Ernest Williams, Carol Wyenn, Diane Young

**Counselors**

Denise Avila, Chuck Brinkman
**Information Systems Certificate**

**Certificate of Achievement**

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.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS M02A</td>
<td>Financial Accounting Principles I</td>
<td>3</td>
</tr>
<tr>
<td>BUS M02B</td>
<td>Financial Accounting Principles II</td>
<td>3</td>
</tr>
<tr>
<td>BUS M30</td>
<td>Intro to Business and Economics</td>
<td>3</td>
</tr>
<tr>
<td>CIS M16</td>
<td>Intro to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS M16L</td>
<td>Introduction to Information Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>CIS M40</td>
<td>Windows Programming: Visual BASIC I</td>
<td>3</td>
</tr>
<tr>
<td>CIS M40L</td>
<td>CIS Visual BASIC I Lab</td>
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<tr>
<td>CIS M41</td>
<td>Windows Programming: Visual BASIC II</td>
<td>3</td>
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<tr>
<td>CIS M41L</td>
<td>CIS BASIC II Lab</td>
<td>1</td>
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<tr>
<td>CIS M53</td>
<td>Systems Analysis</td>
<td>3</td>
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</tbody>
</table>

**Plus either:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS M42</td>
<td>Computer Programming I: COBOL</td>
<td>3</td>
</tr>
<tr>
<td>CIS M43</td>
<td>Computer Programming II: COBOL</td>
<td>3</td>
</tr>
<tr>
<td>CIS M43L</td>
<td>CIS COBOL I Lab</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>CIS M50</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>CIS M51</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CIS M52</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total minimum units required**

**31 or 32**

**Recommended:**

- CIS M18/M18L, ECON M01, M02

*With suitable General Education courses, this option may be used to obtain an Associate in Science Degree.*

**Microcomputer Applications**

**Certificate of Completion**

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 and in local businesses/industry.

**Required Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>BUS M39</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>CIS M12</td>
<td>Intermediate Computer Keyboarding</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>ability to type 30 wpm</td>
<td></td>
</tr>
<tr>
<td>CIS M15</td>
<td>Introduction to the Personal Computer</td>
<td>1.5</td>
</tr>
<tr>
<td>CIS M17</td>
<td>Introduction to Windows 98</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Choose and additional 6 units:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS M20</td>
<td>Word for Windows Part 1</td>
<td>1.5</td>
</tr>
<tr>
<td>CIS M21</td>
<td>Word for Windows Part 2</td>
<td>1.5</td>
</tr>
<tr>
<td>CIS M24</td>
<td>Excel for Windows Part 1</td>
<td>1.5</td>
</tr>
<tr>
<td>CIS M25</td>
<td>Excel for Windows Part 2</td>
<td>1.5</td>
</tr>
<tr>
<td>CIS M26</td>
<td>Access for Windows</td>
<td>1.5</td>
</tr>
<tr>
<td>CIS M27</td>
<td>PowerPoint for Windows</td>
<td>1.5</td>
</tr>
<tr>
<td>CIS M28</td>
<td>Microsoft Office</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Minimum units required**

**13**

**Computer Information Systems Courses**

The UC system allows credit for the first 6 courses taken in either Computer Information Systems, Computer Science or some combination.

**CIS M10 -- 0.5 Unit**

**Keyboarding Review**

Prerequisite: None

Recommended Preparation: A previous course in typing/keyboardig Class Hours: 3 lab for 8 weeks

Reviews existing typing/keyboarding skills. Can receive credit in CIS M10 or CIS M11, not both. Formerly BIS 1R. *Applies to Associate Degree.*

**CIS M11 -- 1 Unit**

**Basic Computer Keyboarding**

Prerequisite: None

Class Hours: 6 lab for 8 weeks

Introduces basic keyboarding techniques, emphasizing speed and accuracy to 20 words per minute. Works in a custom-designed program in Microsoft Word. No previous computer/typewriter experience required. Not recommended for those who have taken a previous typing/keyboarding class. Can receive credit in CIS M10 or CIS M11, not both. May be taken two (2) times for credit. Formerly BIS M1. *Applies to Associate Degree.*

**CIS M12 -- 1 Unit**

**Intermediate Computer Keyboarding**

Prerequisite: CIS M10 or CIS M11 or ability to type 20 wpm

Class Hours: 6 lab for 8 weeks

Introduces students to figure and symbol skills and develops speed and accuracy through a custom-designed program in Microsoft Word. Formerly BIS 2. *Applies to Associate Degree.*
CIS M13 -- 1 Unit
Computer Keyboarding / Speed Building
Prerequisite: CIS M12 or the ability to type 55 wpm
Class Hours: 6 lab for 8 weeks
Emphasizes continued development of speed and accuracy through a programmed series of timings and drills customized to individual needs. Grade based on improvement. May be taken two (2) times for credit. Formerly BIS 3. Applies to Associate Degree.

CIS M14 -- 1 Unit
10-Key Mastery on the Computer
Prerequisite: None
Class Hours: 1 lecture, 3 lab for 8 weeks
Builds mastery of the numeric keyboard and develops speed and accuracy for data entry as well as spreadsheet and database applications in a work environment. Formerly BIS 6. Applies to Associate Degree.

CIS M15 -- 1.5 Units
Introduction to the Personal Computer
Prerequisite: CIS M11
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces computer terminology and concepts, emphasizing software installation, computer system expansion, computer purchase, and e-mail/Internet use. May be taken three (3) times for credit. Only offered credit/no-credit. Formerly BIS 10A. Applies to Associate Degree.

CIS M16 -- 3 Units
Introduction to Information Systems
Prerequisite: None
Corequisite: CIS M16L
Recommended Preparation: CIS M11
Class Hours: 3 lecture
Introduces history, development and application of information processing systems, emphasizing the microcomputer. Includes hands-on experience solving problems and writing/executing programs in the language QBASIC. Meets requirements of the DPMA Model Curriculum. May be taken two (2) times for credit. Formerly CIS 1. Applies to Associate Degree. Transfer credit: CSU.

CIS M16L -- 1 Unit
CIS Introduction Lab
Prerequisite: None
Corequisite: CIS M16
Class Hours: 3 lab
Provides hands-on practice with Microsoft Office 97 and QBASIC on an IBM PC platform with Windows 95 or Windows NT. May be taken two (2) times for credit. Only offered credit/no-credit. Formerly CIS 1L. Applies to Associate Degree. Transfer credit: CSU.

CIS M17 -- 1.5 Units
Introduction to Windows 98
Prerequisite: None
Recommended Preparation: CIS M15
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces the Windows 98 operating system, emphasizing running programs, entering/moving data, and performing DOS-related tasks. Includes program and file management using Explorer, Paint and WordPad. May be taken three (3) times for credit. Formerly BIS 19. Applies to Associate Degree. Transfer credit: CSU.

CIS M20 -- 1.5 Units
Microsoft Word Part 1
Prerequisite: CIS M17
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces Microsoft Word for Windows, including creating and editing a Word document; formatting characters, paragraphs, and pages; changing fonts; using tools such as spell check; and manipulating formatting tools. May be taken three (3) times for credit. Formerly BIS 21A. Applies to Associate Degree.

CIS M21 -- 0.5 Unit
Microsoft Word Part 2
Prerequisite: CIS M20
Class Hours: 3 lab for 8 weeks
Continues introduction to Microsoft Word for Windows, including moving text; working with multiple windows; conducting find/replace; printing; formatting with templates and macros; adding borders, frames and pictures; and using Microsoft draw, WordArt and equation editor. May be taken three (3) times for credit. Formerly BIS 21B. Applies to Associate Degree.

CIS M22A/B -- 1 to 3 Units Each
Independent Studies in Information Systems
Prerequisite: A previous course in Computer Information Systems
Class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of computer information systems through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

CIS M23 -- 0.5 Unit
Microsoft Word Part 3
Prerequisite: CIS M21
Class Hours: 3 lab for 8 weeks
Develops advanced page and document formatting in the Word for Windows program, including creating tables and charts; formatting text into columns; merging documents; sorting and selecting text and records; creating outlines, tables, and indexes; and formatting with styles. May be taken three (3) times for credit. Formerly BIS 21C. Applies to Associate Degree.

CIS M24 -- 1.5 Units
Microsoft Excel Part 1
Prerequisite: CIS M17
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces basics of an electronic spreadsheet through Excel's desktop environment, emphasizing how to enter data, select commands, move the cell cursor around the worksheet, get help, save a worksheet in a workbook file, and print a range of data. May be taken three (3) times for credit. Formerly BIS 24A. Applies to Associate Degree.

CIS M25 -- 1.5 Units
Microsoft Excel Part 2
Prerequisite: CIS M24
Class Hours: 3 lab for 8 weeks
Introduces professional analyses of investment or other financial decisions, using appropriate chart and visual elements. Emphasizes linking, embedding, and consolidating worksheets as well as designing and manipulating databases. May be taken three (3) times for credit. Formerly BIS 24B. Applies to Associate Degree.
CIS M26A -- 1.5 Units
Microsoft Access I
Prerequisite: CIS M17
Class Hours: 2 lecture/3 lab for 8 weeks
Introduces designing and building an Access database, using Microsoft's Windows. May be taken three (3) times for credit. Formerly BIS 12. Applies to Associate Degree.

CIS M26B -- 0.5 Units
Microsoft Access II
Prerequisite: CIS M26A
Class Hours: 3 lab for 8 weeks
Introduces advanced topics in working with Access, including adding queries to database, creating database relationships, designing advanced queries and using advanced report features. Includes Visual Basic. Applies to Associate Degree.

CIS M27 -- 1.5 Units
Microsoft PowerPoint
Prerequisite: CIS M17
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces presentation preparation, using animation, charts, clip art, pictures, shapes and sounds. May be taken three (3) times for credit. Formerly BIS 17. Applies to Associate Degree.

CIS M28 -- 3 Units
Microsoft Office
Prerequisite: None
Class Hours: 2 lecture/3 lab for 16 weeks
Introduces Microsoft Windows 95, Word, Excel, and PowerPoint, emphasizing integration features and advanced OLE technology. May be taken three (3) times for credit. Formerly BIS 16. Applies to Associate Degree.

CIS M30 -- 3 Units
Windows Programming: Visual BASIC I
Prerequisite: CIS M15
Corequisite: CIS M40L
Class Hours: 3 lecture
Introduces programming in a Windows environment using Microsoft Visual BASIC. Focuses on Event Oriented programming, including forms, events, properties, controls and event procedures, menus and dialog boxes, files and graphics, the user interface, managing projects, flow control, sorting, advanced data handling and debugging procedures. Formerly CIS 3A. Applies to Associate Degree. Transfer credit: CSU; UC

CIS M30L -- 1 Unit
CIS Visual BASIC I Lab
Prerequisite: None
Corequisite: CIS M40
Class Hours: 3 lab
Provides hands-on experience with Visual BASIC programming. Only offered credit/no-credit. Formerly CIS 3AL. Applies to Associate Degree. Transfer credit: CSU; UC

CIS M31 -- 3 Units
Windows Programming: Visual BASIC II
Prerequisites: CIS M40/M40L
Corequisite: CIS M41L
Class Hours: 3 lecture
Expands use Microsoft Visual BASIC, building on previous understanding of syntax and procedures. Focuses on the interaction of programs, the use of more advanced graphics and sound, and the handling of more complex data files and arrays. Provides experience with real-world business applications. Formerly CIS 3B. Applies to Associate Degree. Transfer credit: CSU; UC

CIS M41L -- 1 Unit
CIS Visual BASIC II Lab
Prerequisite: None
Corequisite: CIS M41
Class Hours: 3 lab
Provides hands-on lab experience for advanced Visual BASIC programming exercises. Only offered credit/no-credit. Formerly CIS 3BL. Applies to Associate Degree. Transfer credit: CSU; UC

CIS M42 -- 3 Units
Computer Programming I: COBOL
Prerequisite: CIS M16
Corequisite: CIS M42L
Recommended Preparation: Concurrent enrollment or prior completion of CIS M02.
Class Hours: 3 lecture
Introduces basic computer programming concepts used in solving business CIS problems. Provides actual programming experience using COBOL. Formerly CIS 4A. Applies to Associate Degree. Transfer credit: CSU; UC; CAN: CSCI 8 (CIS M42 + M42L)

CIS M42L -- 1 Unit
CIS COBOL I Lab
Prerequisite: None
Corequisite: CIS M42
Class Hours: 3 lab
Provides hands-on experience solving problems in COBOL. Only offered credit/no-credit. Formerly CIS 4AL. Applies to Associate Degree. Transfer credit: CSU; UC; CAN: CSCI 8 (CIS M42 + M42L)

CIS M43 -- 3 Units
Computer Programming II: COBOL
Prerequisites: CIS M42/M42L
Corequisite: CIS M43L
Class Hours: 3 lecture
Introduces advanced COBOL programming techniques, emphasizing disk file concepts. Emphasizes applications such as payroll, accounts payable and inventory. Formerly CIS 4B. Applies to Associate Degree. Transfer credit: CSU; UC

CIS M43L -- 1 Unit
CIS COBOL II Lab
Prerequisite: None
Corequisite: CIS M43
Class Hours: 3 lab
Provides hands-on experience with advanced, interrelated COBOL programs, including all aspects of design, development and documentation. Only offered credit/no-credit only. Formerly CIS 4BL. Applies to Associate Degree. Transfer credit: CSU; UC

CIS M50 -- 3 Units
Introduction to Local Area Networks (IAN)
Prerequisite: None
Recommended Preparation: CIS M16/M16L
Class Hours: 2.5 lecture, 1.5 lab
Introduces system requirements, terminology, technology, topologies and software used in Local Area Networks, including evaluation of applications and integration with Wide Area Networks. Emphasizes hardware components, protocols and applications that support users. Reviews the features, expandability and maintainability of a range of network operating systems. May be taken four (4) times for credit. Formerly CIS 5. Applies to Associate Degree. Transfer credit: CSU

63
CIS M51 -- 3 Units
Introduction to Novell Client/Server
Prerequisite: CIS M50
Class Hours: 2.5 lecture, 1.5 lab
Introduces networking using Novell, emphasizing how to log on to a Novell network, map drives, set passwords, configure a Novell Client system, run applications over the network, install and de-install Novell Client software and troubleshoot. Reviews Novell Server issues such as account administration, the Novell file system structure, system optimization, Novell server and workstation installation, security, printing and diagnostics as well as creating users and setting access privileges. Prepares students to take Novell's CNA tests and portions of CNE tests to become Novell certified. May be taken four (4) times for credit. Formerly CIS 7. Applies to Associate Degree. Transfer credit: CSU.

CIS M52 -- 3 Units
Introduction to Microsoft Windows NT Workstation/Server
Prerequisite: CIS M50
Class Hours: 2.5 lecture, 1.5 lab
Introduces Microsoft Windows NT, focusing on how to log on to an NT network, map drives, set passwords, and configure an NT workstation. Reviews NT server issues such as account administration, the NT file system structure, system optimization, NT server and workstation installation, security, printing and diagnostics. May be taken four (4) times for credit. Formerly CIS 8. Applies to Associate Degree. Transfer credit: CSU

CIS M53 -- 3 Units
Systems Analysis
Prerequisites: CIS M16 and a programming class
Class Hours: 3 lecture
Introduces computer information systems and procedures and offers analysis of various existing business CIS principles and non-data and data systems concepts. Formerly CIS 5. Applies to Associate Degree. Transfer credit: CSU.

CIS M60A-Z -- 1 to 3 Units Each
Topics in Computers
Prerequisites: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

CIS M60C -- 1 Unit
Internet and WWW I
Prerequisite: None
Recommended Preparation: CIS M17
Class Hours: 1 lecture/1 lab for 4 weeks
Provides a window into the World Wide Web and its abundance of resources. Provides hands-on experience using popular search engines, selecting an Internet provider and using e-mail and File Transfer Protocol. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

CIS M60D -- 1 Unit
Web Page Design w/HTML
Prerequisite: None
Recommended Preparation: CIS M17
Class Hours: 1 lecture/1 lab for 4 weeks
Provides the fundamentals of HTML (HyperText Markup Language) programming to design Web pages, exploring personal Internet and business Intranet environments. Requires WebPage production. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

CIS M60E -- 1 Unit
Internet and WWW II
Prerequisite: CIS M60C or equivalent knowledge of the Internet
Class Hours: 1 lecture/1 lab for 4 weeks
Expands proficiency in dynamic areas related to the Internet and World Wide Web, including complex search and retrieval strategies, file compression and decompression, browser plug-ins, Internet Relay Chat and teleconferencing. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

CIS M60F -- 1 Unit
Quicken
Prerequisite: None
Recommended Preparation: CIS M17
Class Hours: 1 lecture/1 lab for four weeks
Introduces financial software package to organize personal finances by setting up electronic checkbook registers for tracking transactions. Includes creating reports and graphs, tracking investments, managing savings, and monitoring cash flow. (Same course as BUS M60F). Applies to Associate Degree. Transfer credit: UC credit limitations.

CIS M61 -- 1 Unit
Computer Programming Laboratory
Prerequisite: None
Corequisite: CIS M22A/B with subject that requires extensive lab work/computer usage
Class Hours: 3 lab
Allows credit for lab experience, when deemed appropriate by the instructor under an Independent Study contract. May be taken two (2) times for credit. Only offered credit/no-credit. Formerly CIS 9. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

CIS M80 -- 1 to 4 Units
Internship in Computer Information Systems
Prerequisite: Completion or concurrent enrollment in a course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance course work under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluation. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1460, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

COMPUTER NETWORK SYSTEMS ENGINEERING

The Computer Network Systems Engineering (CNSE) Program provides specific technologies necessary to function effectively as a multi-platform network systems administrator/analyst. It provides hands-on training in networking hardware and software. Successful program completion qualifies individuals for beginning positions in networking administration. See chart on page 59.

Dean
To be announced, Phone (805) 378-1572

Faculty
Full-Time
Sheila Tan

New AS degree
Computer Network Systems Engineering

Part-Time
Syed Ahmad, Sevak Khurana, Josef Kurenczi, Brian Lent, Dave Owen, Richard Volpe

Counselors
Edna Ingram, Letrisha Mai, Danita R. Redd

Computer Network Systems Engineering

Certificate of Completion

Received Courses: Units
CIS M60........ Web Page Design w/ HTML 1
EL M08........ PC Hardware for Novices 1.5
EL M18........ PC Repair and Upgrade 3
CNSE M10..... Introduction to Telecommunications 3
CNSE M11..... Networking Technologies (Cisco Networking 1) 1.5
CNSE M12..... Network Wiring and Cabling 3
CNSE M13..... Internetworking: Bridges, Switches and Routers 2.5
CNSE M15..... Cisco System Computer Networking 2 1
CNSE M16..... Cisco System Computer Networking 3 1
CNSE M17..... Cisco System Computer Networking 4 1
CNSE M20..... Netware 5 Administration 2
CNSE M21..... Netware 5 Administration 2
CNSE M23..... IntranetWare: Integrating Windows NT 2
CNSE M30..... Implementing and Supporting MS Windows NT Workstation 1.5
CNSE M31..... Implementing and Supporting MS /Win. NT Server 1.5
CNSE M34..... Internetworking with MS TCP/IP on MS Windows NT Workstation 1.5
CNSE M80..... Internship in CNSE 1
Total minimum units required 30

Suggested Course Sequence:

First Semester
EL M08........ 1.5
CIS M60........ 1
CNSE M10..... 3
Total 5.5

Third Semester
CNSE M13..... 2.5
CNSE M30..... 1.5
CNSE M31..... 1.5
CNSE M20..... 2
CNSE M21..... 2
Total 9.5

Second Semester
EL M18........ 3
CNSE M11..... 1.5
CNSE M12..... 3
CNSE M15..... 1
Total 8.5

Fourth Semester
CNSE M34..... 1.5
CNSE M16..... 1
CNSE M17..... 1
CNSE M23..... 2
CNSE M80..... 1
Total 6.5

Computer Network Systems Engineering Courses

CNSE M10..... 3 Units
Introduction to Telecommunications
Prerequisite: None
Class Hours: 3 lecture
Introduces voice, data and video communications and an overview of the telecommunications industry. Includes customer premises equipment, switches and private networks, transmission media, fiber optics, T-1 technology, channel banks, switching and signaling, advanced telecommunications services, local area networks, wide area networks, internet, ISDN, personal computing systems, and telecommunication protocols. Formerly EL 50. Applies to Associate Degree.

CNSE M11..... 3.5 Units
Networking Technologies
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Introduces networking technology as foundation for network training. Reviews contemporary network services, transmission media, and protocols in LANs and WANs environments. First course offering Cisco System Hardware Certificate Training. Formerly EL 51. Applies to Associate Degree.

CNSE M12..... 3 Units
Network Wiring and Cabling
Prerequisite: CNSE M10 or equivalent experience
Class Hours: 2 lecture, 3 lab
Introduces physical layer of networking, providing hands-on experience testing, troubleshooting, and installing network wiring and cabling. Formerly EL 52. Applies to Associate Degree.

CNSE M13..... 2.5 Units
Internetworking: Bridges, Switches, and Routers
Prerequisite: CNSE M11
Class Hours: 2 lecture, 1.5 lab
Provides knowledge required to deploy and use bridges, switches, and routers in LAN/WAN multiprotocol settings. Formerly EL 53. Applies to Associate Degree.

CNSE M14..... 3 Units
Introduction to Mobile Data/Wireless LAN Technologies
Prerequisite: EL M11 or CNSE M32
Class Hours: 3 lecture
Reviews potential mobile data and wireless LAN applications, market forecasts, services offered, traffic capacities and bandwidth issues, spectrum allocation, standards, products, and key players. Includes primer on wireless networking, mobile data, wireless spectra, international standards, and wired PCMCIA technology applicable to mobile communications. Formerly EL 54. Applies to Associate Degree.

CNSE M15..... 3 Units
Cisco System Computer Networking 2
Prerequisite: CNSE M11
Class Hours: 1 lecture, 3 lab for 8 weeks
Introduces current and emerging computer networking technology and reviews intermediate level instruction in LANs, WANs, OSI models, IP addressing, and router programming. Second course offering Cisco System Hardware Certificate Training. Formerly EL 55. Applies to Associate Degree.

CNSE M10 6A
CNSE M12 3.5
CNSE M13 2.5
CNSE M14 3
CNSE M15 3
CNSE M16 — 3 Units
Cisco System Computer Networking 3
Prerequisite: CNSE M15
Class Hours: 1 lecture, 3 lab for 8 weeks
Provides hands-on experience in current and emerging computer networking technology, covering LAN switching, VLANs, WAN design, ISDN, and Frame Relay. Third course offering Cisco System Hardware Certificate Training. Formerly EL 56. Applies to Associate Degree.

CNSE M17 — 1 Unit
Cisco System Computer Networking 4
Prerequisite: CNSE M16
Class Hours: 1 lecture, 3 lab for 8 weeks
Provides hands-on experience in current and emerging computer networking technology, covering Wide Area Networking, ISDN, Frame Relay, and Frame Relay. Fourth course offering Cisco System Hardware Certificate Training. Formerly EL 57. Applies to Associate Degree.

CNSE M20 — 2 Units
NetWare 5 Administration
Prerequisite: EL M18
Class Hours: 3 lecture, 3 lab for 8 weeks
Provides knowledge and skills needed to perform fundamental network management tasks as network administrator or system manager for NetWare 5. Formerly EL 61. Applies to Associate Degree.

CNSE M21 — 2 Units
NetWare 5 Advanced Administration
Prerequisite: CNSE M20
Class Hours: 3 lecture, 3 lab for 8 weeks
Provides knowledge and skills needed to design, configure, and administer a complex NetWare 5 network. Includes work upgrading from a NetWare 3 environment, migrating to NetWare Distributed Print Services, executing Java-based utilities, and configuring NetWare 5 for remote access. Formerly EL 62. Applies to Associate Degree.

CNSE M24 — 2 Units
NDS Design and Implementation
Prerequisite: CNSE M21
Class Hours: 3 lecture, 3 lab for 8 weeks
Introduces skills and techniques needed to design and implement strategies for Novell Directory Services (NDS). Requires hands-on work to complete NetWare implementation. Formerly EL M63. Applies to Associate Degree.

CNSE M23 — 2 Units
IntranetWare: Integrating Windows NT
Prerequisite: CNSE M21
Class Hours: 3 lecture, 3 lab for 8 weeks
Integrates a Windows NT environment with an IntranetWare environment, streamlining Novell Directory Services for NT and the NetWare Administrator. Provides hands-on experience administering and managing NT workstations, NT servers, and network-based applications in a mixed IntranetWare and Windows NT environment. Formerly EL M64. Applies to Associate Degree.

CNSE M30 — 1.5 units
Implementing and Supporting MS Windows NT Workstation
Prerequisite: None
Recommended Preparation: CS M01 or CIS M15 or CIS M17 or CS M16/M16L
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces Microsoft Windows NT Workstation, focusing on installation, account administration, disk and resource management, networking environment, interoperability, network domain, optimization, application support, printing, and troubleshooting. May be taken two (2) times for credit. Formerly CS 70. Applies to Associate Degree.

CNSE M31 — 1.5 units
Implementing and Supporting MS Windows NT Server
Prerequisite: CNSE M30
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces Microsoft Windows NT Server, focusing on installation, account administration, environment configuration, file system, local resource protection, security, networking environment, interoperability, network domain, optimization, and troubleshooting. May be taken two (2) times for credit. Formerly CS 71. Applies to Associate Degree.

CNSE M32 — 1.5 units
Networking Essentials
Prerequisite: None
Recommended Preparation: CS M70
Class Hours: 3 lecture for 8 weeks
Introduces Microsoft Networking Essentials, focusing on networking terminology, topologies, and protocols as well as LAN and WAN networking. Uses Microsoft products. May be taken two (2) times for credit. Formerly CS 72. Applies to Associate Degree.

CNSE M33 — 1.5 units
Implementing and Supporting MS Windows 95
Prerequisite: None
Recommended Preparation: CS M01 or CIS M15, CIS M17 or CIS M01
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces Microsoft Windows 95, focusing on installation, environment configuration, file system, local resource protection, networking environment, interoperability, optimization, application support, printing, and troubleshooting. May be taken two (2) times for credit. Formerly CS 73. Applies to Associate Degree.

CNSE M34 — 1.5 units
Internetworking with MS TCP/IP on MS Windows NT Workstation
Prerequisite: CNSE M31
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces Microsoft TCP/IP and components networking, focusing on installation and configuration of DHCP server, WINS server, SNMP server services, TCP/IP printing, and LMHOSTS files as well as troubleshooting TCP/IP networks. May be taken two (2) times for credit. Formerly CS 74. Applies to Associate Degree.

CNSE M35 — 1.5 units
System Administration of MS SQL Server 6.0
Prerequisite: CNSE M31
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces MS SQL Server, including installing and upgrading SQL server; creating devices and databases; creating users and assigning permissions to databases; implementing SQL server security models; backing up and restoring databases; learning the functions of the master, msdb, and tempdb databases; and monitoring and troubleshooting SQL server. May be taken two (2) times for credit. Formerly CS 75. Applies to Associate Degree.
Computer Network Systems Engineering

General Education - 42 units
Supporting MS Windows NT Server 4.0 - Enterprise Technologies
Pre-requisite: CNSE M31
Class Hours: 2 lecture, 3 lab for 8 weeks
Introduces Microsoft Windows NT Server 4.0, focusing on design, implementation, and support of Windows NT Server network operating system in a multi-domain enterprise environment. Formerly CS 76. Applies to Associate Degree.

CNSE M80 - 1 to 4 Units
Internship in Computer Systems Networking
Pre-requisite: Completion or concurrent enrollment in a course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance course work under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluation. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Officer, Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

COMPUTER SCIENCE

Computer Science is concerned with the design, modeling, analysis, and applications of computer-related systems. The Computer Science program at Moorpark College prepares students for further study in Computer Science. It also provides vocational training necessary to understand, design, implement, and use the software and hardware of digital computers and digital systems. See chart on page 59.

Career Opportunities

Most careers require bachelor's or graduate degree.

Dean

To be announced, Phone (805) 378-1572

Faculty

Full-Time
Christine Aguilera, Martin Chetlen, Sheila Tan

Part-Time
Thomas Becker, Jinda Chen, Robert Ferrel, Chris Ferguson, Chew Joe, Craig Reinhardt, Christine Salazar, Vish Vishnawathan

Counselors
Edna Ingram, Letrisha Mai, Danita R. Redd

Computer Science Degree

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.

Preparation for the major:
- Mathematics - two years high school algebra plus trigonometry or MATH M03 and MATH M07 or equivalent.
- Computer Programming - one year experience in high level programming language (BASIC, FORTRAN, Pascal, or C) or CS M01/01L or equivalent.

Required Courses:
- CS M:0A/M10AL...Introduction to Programming-C/Lab...4
- CS M:OB/M10BL...Object-Oriented Programming Using C++/Lab...4
- CS M20/M20L...Object-Oriented Data Structures & Prog. Design/Lab...4
- CS M30/M30L...Assembly Language and Digital Design/Lab...4
- CS M40...Computer Architecture...3
- MATH M25A...Calculus with Analytic Geometry I...5
- MATH M25B...Calculus with Analytic Geometry II...5
- MATH M31...Introduction to Linear Algebra...3

Select two (2) of the following courses:
- CS M10C/M10CL...Windows Programming Using Visual C++/Lab...4
- CS M10F/10FL...Java Fundamentals/Lab...4
- CS M50...Files and Data Bases...3
- CS M60/M60L...Concepts of Programming Languages/Lab...4
- MATH M25C...Calculus with Analytic Geometry III...5
- MATH M35...Applied Differential Equations...3
- PHIL M09...Symbolic Logic...4

TOTAL minimum units required in major area... 38-41

Suggested Course Sequence:
First Semester
- CS M10A/M10AL...4
- MATH M25A...5
- Total...9

Second Semester
- CS M10B/M10BL...4
- Math 25B...5
- Total...9

Third Semester
- CS M20/M20L...4
- MATH M31...4
- Total...7

Fourth Semester
- CS M30/M30L...4
- CS M40...3
- Total...7

1. Students with no previous background in any computer application (such as word processing), before taking CS M01/M01L, should complete one of the following courses: CIS M16, CIS M19 or CIS M28.
2. Students who have not completed MATH M06 or MATH M07, start from CS M01/M01L and complete MATH M06 or MATH M07 before taking CS M10A/M10AL.
3. Other students start from CS M10A/M10AL.

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

Computer Programming Certificate

Certificate of Completion
The Computer Programming Certificate Program provides programming and program design skills necessary to train individuals to be computer software programmers. It is specifically designed for students who have already received an associate degree or above in other subject areas but plan to make career change to computer software development.

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Required Courses:  
- CS M01/M01L ....... Introduction to Computer Science/Lab .......... 4  
- CS M10A/M10AL .... Introduction to Programming-C/Lab ........... 4  
- CS M10B/M10BL ... Object-Oriented Programming Using C++/Lab ... 4  
- CS M10C/M10CL ... Windows Programming Using Visual C++/Lab ... 4  
- CS M10J/M10JL ... Java Fundamentals/Lab ...................... 4  
- CS M20/M20L ....... Object-Oriented Data Structures &  
Program Design/Lab ............................................ 4  

TOTAL minimum units required .................................. 24  

Suggested Course Sequence:  
First Semester  
- CS M01/M01L ................................................... 4  

Second Semester  
- CS M10A/M10AL ................................................... 4  

Third Semester  
- CS M10B/M10BL ................................................... 4  
- CS M10J/M10JL ................................................... 4  

Fourth Semester  
- CS M10C/M10CL ................................................... 4  
- CS M20/M20L ................................................... 4  

Total ................................................................. 8  

Microsoft Local Area Network Certificate  
Certificate of Completion  
The Local Area Network Certificate Program provides specific technologies necessary to function effectively as a Microsoft Local Area Network (LAN) specialist/administrator. It is designed for students seeking employment and for those already employed but needing skills improvement. Successful program completion should qualify individuals for beginning positions in Microsoft local area network system administration.  
Required courses:  
- CS M71 ... Supporting MS Windows NT Server 4.0 - core Technology .... 1.5  
- CS M72 ... Networking Essentials ............................................. 1.5  
- CS M76 ... Supporting MS Windows NT Server 4.0 - Enterprise  
Enterprise Technologies .................................................. 1.5  
- CS M79 ... Implementing & Supporting MS Windows  
NT Workstation 4.0 .................................................. 1.5  
- or  
- CS M73 ... Implementing & Supporting MS Windows 95 .............. 1.5  
- 2 electives:  
- CS M74 ... Internetworking with MS TCP/IP on MS Windows  
NT Workstation 4.0 .................................................. 1.5  
- CS M75 ... System Administration of MS SQL Server 6.0 ........ 1.5  

TOTAL minimum units required .................................. 9.0  

Microsoft Authorized Academic Training  
Microsoft Certified System Engineer  
The Moorpark College Computer Science Local Area Network Program  
is a Microsoft Authorized Academic Training Program. Students earning the Moorpark College Microsoft Local Area Network Certificate of Completion are encouraged to take the examinations to become a Microsoft Certified System Engineer.  

Computer Science Courses  
CS M01 -- 3 Units  
Introduction to Computer Science  
Prerequisite: None  
Corequisite: Concurrent enrollment in CS M01  
Recommended Preparation: CS M02, M17 or M28 if no computer experience.  
Class Hours: 3 lecture  
Introduces principle elements of computer science. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations - CS M01, M01L and M10A, M10L combined maximum credit for one course and one lab.  

CS M01L -- 1 Unit  
Introduction to Computer Science Laboratory  
Prerequisite: None  
Corequisite: Concurrent enrollment in CS M01  
Class Hours: 3 laboratory  
Provides hands-on experience with computers. Only offered credit/no-credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations:  

CS M02 -- 3 Units  
Introduction to UNIX and C  
Prerequisite: None  
Corequisite: Concurrent enrollment in CS M02  
Recommended Preparation: Familiarity with computer architecture and at least one high-level programming language  
Class Hours: 3 lecture  
Introduces UNIX operating system and the C programming language, including vi editor, C shell, shell scripts, and other UNIX utility programs as well as programming concepts and design in C. Applies to Associate Degree. Transfer credit: CSU; UC  

CS M02L -- 1 Unit  
Introduction to UNIX and C Laboratory  
Prerequisite: None  
Corequisite: Concurrent enrollment in CS M02  
Class Hours: 3 lab  
Provides hands-on work with UNIX and C. Only offered credit/no-credit. Applies to Associate Degree. Transfer credit: CSU; UC  

CS M03 -- 3 Units  
Introduction to Computer Hardware and Systems Software  
Prerequisite: None  
Recommended Preparation: CS M01  
Class Hours: 3 lecture  
Introduces computer hardware and systems software concepts from the user's viewpoint, including computer organization, data representation, operating systems, and systems software design and use. Intended for non-computer science majors. Applies to Associate Degree. Transfer credit: CSU  

CS M10A -- 3 Units  
Introduction to Programming with C  
Prerequisite: MATH M06 or MATH M07  
Corequisite: Concurrent enrollment in CS M10AL  
Class Hours: 3 lecture  
Introduces the organization of computers, emphasizing basic programming concepts: algorithms, data and control structures, debugging, program design, documentation, and structured programming. Demonstrates software engineering methodologies using C. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations: CS M01, M01L and M10A, M10AL combined maximum credit for one course and one lab.
CS M10A -- 1 Unit
Introduction to Programming with C Laboratory
Prerequisite: None
Corequisite: Concurrent enrollment in CS M10A
Class Hours: 3 lab
Provides hands-on experience with basic programming concepts. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M10B -- 3 Units
Object-Oriented Programming Using C++
Prerequisite: CS M10B/M10AL or proficiency in C
Corequisite: Concurrent enrollment in CS M10B.
Class Hours: 3 lecture
Introduces fundamentals of object-oriented programming methodology such as message-passing, data-hiding, encapsulation, and class and inheritance using C++. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M10BL -- 1 Unit
Object-Oriented Programming Laboratory Using C++
Prerequisite: CS M10B/M10AL or proficiency in C
Corequisite: Concurrent enrollment in CS M10B.
Class Hours: 3 lab
Provides hands-on experience with object-oriented programming using C++. Only offered credit/no-credit. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M10C -- 3 Units
Windows Programming Using Visual C++
Prerequisite: CS M10B/M10BL or proficiency in C++
Corequisite: Concurrent enrollment in CS M10C.
Class Hours: 3 lecture
Introduces main components of a Windows application, including development environment, messaging model, user interface, graphic device interface, and memory management. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M10CL -- 1 Unit
Windows Programming Laboratory Using Visual C++
Prerequisite: None
Corequisite: Concurrent enrollment in CS M10C.
Class Hours: 3 lab
Provides hands-on experience with Windows programming using Visual C++. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M10J -- 3 Units
Java Fundamentals
Prerequisite: None
Recommended Preparation: CS M10A or CS M10B.
Corequisite: Concurrent enrollment in CS M10J.
Class Hours: 3 lecture
Introduces Java programming fundamentals, including Java language, Java object-oriented programming, Applet programming, GUI programming, animation programming, stand-alone application programming, and network programming. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M10JL -- 1 Unit
Java Fundamentals Lab
Prerequisite: None
Corequisite: Concurrent enrollment in CS M10J.
Class Hours: 3 laboratory
Provides hands-on in Java fundamentals. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M18 -- 3 Units
Computer Programming - FORTRAN
Prerequisites: MATH M05 and MATH M06 or MATH M07 or equivalent skills measured by the college assessment process
Corequisite: Concurrent enrollment in CS M18L.
Class Hours: 3 lecture
Introduces the organization of computers using the FORTRAN language and basic programming concepts, including algorithms, data and control structures, debugging, program design, documentation, and structured programming. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: CSCI 4 (CS M18 & M18L)

CS M18L -- 1 Unit
Computer Programming Laboratory - FORTRAN
Prerequisite: None
Corequisite: Concurrent enrollment in CS M18.
Class Hours: 3 lab
Provides hands-on experience in FORTRAN. Only offered credit/no-credit. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: CSCI 4 (CS M18 & M18L).

CS M19 -- 3 Units
Software Engineering with Ada
Prerequisite: None
Corequisite: Concurrent enrollment in CS M19L.
Recommended Preparation: Knowledge of at least one high-level language.
Class Hours: 3 lecture
Introduces concepts in software engineering using Ada. Includes data abstraction and Ada's types, generics, exception handling, packages, tasking and parallel programming. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M19L -- 1 Unit
Software Engineering Laboratory with Ada
Prerequisite: None
Corequisite: Concurrent enrollment in CS M19.
Recommended Preparation: Knowledge of at least one high-level language.
Class Hours: 3 lab
Provides hands-on experience with Ada. Only offered credit/no-credit. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M20 -- 3 Units
Object-Oriented Data Structures and Algorithm Design
Prerequisite: CS M10B or proficiency in Object Oriented C++.
Corequisite: Concurrent enrollment in CS M20L.
Class Hours: 3 lecture
Applies object-oriented programming methods to abstract data types such as stacks, queues, trees, and graphs. Introduces concepts of pointer variables, linked list, list processing, recursion, simulation, algorithm analysis and verification as well as more advanced algorithm designs such as greedy algorithms and dynamic programming. Applies to Associate Degree. Transfer credit: CSU, UC. CAN: CSCI 24 (CS M20 & M20L).

CS M20L -- 1 Unit
Object-Oriented Data Structures and Algorithm Design Laboratory
Prerequisite: None
Corequisite: Concurrent enrollment in CS M20.
Class Hours: 3 lab
Provides hands-on experience with object-oriented programming. Only offered credit/no-credit. Applies to Associate Degree. Transfer credit: CSU, UC. CAN: CSCI 24 (CS M20 & M20L).
CS M22A/B -- 0.5 to 3 Units each
Independent Studies in Computer Science
Prerequisite: A previous course in Computer Science
Class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of computer science through research, lab work or
field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

CS M30 -- 3 Units
Assembly Language and Digital Design
Prerequisite: None
Corequisite: Concurrent enrollment in CS M30
Recommended Preparation: Knowledge of at least one high-level language and CS M20/M20L
Class Hours: 3 lecture
Introduces computer organization, assembly language programming, input-output programming, interrupt handlers and digital logic functions. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: CSCI 10 (CS M30 + M30L).

CS M30L -- 1 Unit
Assembly Language and Digital Design Laboratory
Prerequisite: None
Corequisite: Concurrent enrollment in CS M30
Recommended Preparation: Knowledge of at least one high-level language and CS M20/M20L
Class Hours: 3 lab
Provides hands-on experience with assembly language. Only offered credit/no-credit. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: CSCI 10 (CS M30 + M30L).

CS M40 -- 3 Units
Computer Architecture
Prerequisite: None
Recommended Preparation: Knowledge of at least one high-level language and CS M30/M30L
Class Hours: 3 lecture
Introduces structure and organization of computer systems, including number systems, data representation, ALU design and function, memory micro programming, I/O handling and interrupts. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M50 -- 3 Units
Files and Data Bases
Prerequisite: None
Recommended Preparation: Knowledge of at least one high-level language and CS M30/M30L
Class Hours: 3 lecture
Introduces large file and data base management, including multi-file data bases, objectives of data base organization, and data base structure. Reviews file structures: sequential, indexed sequential, indexed direct, inverted, tree, and ring. Applies to Associate Degree. Transfer credit: CSU.

CS M60 -- 3 Units
Concepts of Programming Languages
Prerequisite: None
Corequisite: Concurrent enrollment in CS M60
Recommended Preparation: Knowledge of at least one high-level language and CS M20/M20L
Class Hours: 3 lecture
Introduces basic concepts of programming languages, including syntax, BNF, scope of names, semantics, type checking, and storage management. Compares programming languages, such as Pascal, Ada, FORTRAN, and Lisp. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M60L -- 1 Unit
Concepts of Programming Languages Laboratory
Prerequisite: None
Corequisite: Concurrent enrollment in CS M60
Recommended Preparation: Knowledge of at least one high-level language and CS M20/M20L
Class Hours: 3 lab
Provides hands-on experience with programming languages. Only offered credit/no-credit. Applies to Associate Degree. Transfer credit: CSU; UC.

CS M80 -- 1 to 4 Units
Internship in Computer Science
Prerequisite: Completion or concurrent enrollment in a course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance course work under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluation. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; credit limitations.

COUNSELING
See courses in Personal Growth

CRIMINAL 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 employment opportunities for men and women in all components of the Criminal Justice System. Never before has there been such a demand for qualified persons in these occupational fields as now. The Criminal Justice Program offers an education to students in the varied aspects of law enforcement, court procedures and corrections. A foundation of knowledge is provided for those interested in becoming competitive candidates for these rewarding and challenging positions.

Career Opportunities
Municipal Police Officer, County Deputy Sheriff, State Traffic Officer (CHP), University/College Police Officer, Park Ranger (State/County), Group Supervisor/Counselor, Private Security/Loss Prevention, County Marshall, Court Bailiff, State Police Officer, Border Patrol Agent, Custodial Officer, Private Investigation
Criminal Justice

Dean
Judith Gerhart, Phone (805) 378-1402

Faculty

Full-Time
David Harrington

Part-Time
Phillip Anderson, James Murphy, Martin Rouse
Joseph Ruggiero, Michael Sayre, Michael Webb

Counselors
Mike Johnson, Ofelia Romero-Motlagh

Criminal Justice Degree (Occupational)

Associate in Science Degree
This program offers training of students in the varied aspects of the Criminal Justice System including law enforcement, courts and corrections. Background is provided for those interested in being recruited by criminal justice agencies as well as upgrading the skills of those already employed in this field.

Required Courses: Units
CJ M01 Introduction to Criminal Justice 3
CJ M02 Concepts of Criminal Law 3
CJ M03 Community Relations 3
CJ M04 Legal Aspects of Evidence 3
CJ M05 Principles/Procedures of the Justice System 3
CJ M06 Criminal Justice Report Writing 3
CJ M41 Intro to Probation, Parole and Corrections 3

Required Additional Courses:
Select six (6) units from the following courses:
CJ M10 Patrol Procedures 3
CJ M11 Criminal Investigation 3
CJ M14 Juvenile Procedure 3
CJ M18 Narcotics Investigation 3
CJ M19 Vice Control 3

TOTAL minimum units required in major area 27

Recommended Courses: PS M03; PSV M01A; SOC M01

Suggested Course Sequence:
First Semester
CJ M01 ................................................. 3
CJ M02 ................................................. 3
Total .................................................. 6

Second Semester
CJ M03 ................................................. 3
CJ M05 ................................................. 3
Total .................................................. 6

Third Semester
CJ M04 ................................................. 3
CJ M41 ................................................. 3
Any Elective Course ................................ 3
Total .................................................. 9

Fourth Semester
CJ M06 ................................................. 3
Any Elective Course ................................ 3
Total .................................................. 6

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

Criminal Justice Courses

CJ M01 -- 3 Units
Introduction to Criminal Justice
Prerequisite: None
Class Hours: 3 lecture
Introduces the history and philosophy of criminal justice in America, reviewing system recapitulation; sub-system identification; role expectations and interrelationships; crime, punishment and rehabilitation theories; and ethics, education and training issues. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: AJ 2

CJ M02 -- 3 Units
Concepts of Criminal Law
Prerequisite: None
Class Hours: 3 lecture
Introduces historical development and philosophy of law, reviewing constitutional provisions; definitions; classification of crime and their application to the Criminal Justice System; legal research; and study of case law, methodology and concepts of law as a social force. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: AJ 4

CJ M03 -- 3 Units
Community Relations
Prerequisite: None
Class Hours: 3 lecture
Explores the interrelationship and role expectations among the various agencies and the public, emphasizing the professional image of the Criminal Justice System and the development of positive relationships between the system and the public. Requires exploration of criminal justice practitioners and their agencies. Applies to Associate Degree. Transfer credit: CSU; UC

CJ M04 -- 3 Units
Legal Aspects of Evidence
Prerequisites: CJ M01 and CJ M02
Class Hours: 3 lecture
Introduces the origin, development, philosophy and constitutional basis of evidence, including constitutional and procedural considerations affecting arrest, search and seizure; kinds and degrees of evidence and rules governing admissibility; and judicial decisions interpreting individual rights. Applies to Associate Degree. Transfer credit: CSU. CAN: AJ 6

CJ M05 -- 3 Units
Principles and Procedures of the Justice System
Prerequisite: None
Class Hours: 3 lecture
Introduces the role and responsibilities of each segment within the Criminal Justice System: law enforcement, judicial, and corrections. Reviews each sub-system's procedures from initial entry to final disposition as well as the relationship each segment maintains with its system members. Applies to Associate Degree. Transfer credit: CSU

CJ M06 -- 3 Units
Criminal Justice Report Writing
Prerequisite: None
Class Hours: 3 lecture
Emphasizes observation and writing skills needed to record crime scenes, emergency response situations, and routine occurrences. Requires accurate, clear, concise, complete and acceptable standard written English appropriate for court presentation. Intended for criminal justice practitioners. Applies to Associate Degree. Transfer credit: CSU
CJ M10 -- 3 Units
Patrol Procedures
Prerequisite: None
Class Hours: 3 lecture
Introduces responsibilities, techniques, and methods of police patrol, including handling of complaints, mechanisms of arrest, preliminary investigations, field note taking, and report writing. *Applies to Associate Degree. Transfer credit: CSU*

CJ M11 -- 3 Units
Criminal Investigation
Prerequisites: CJ M01 and CJ M02
Class Hours: 3 lecture
Introduces fundamentals of investigation including crime scene search and recording; collection and preservation of physical evidence; scientific aids and modus operandi; sources of information; interviews and interrogation; and follow-up and case preparation. *Applies to Associate Degree. Transfer credit: CSU.*

CJ M14 -- 3 Units
Juvenile Procedure
Prerequisite: None
Class Hours: 3 lecture
Focuses upon the organization, functions, and jurisdiction of juvenile agencies, including the processing and detention of juveniles; juvenile case disposition; and juvenile statutes and court procedures. *Applies to Associate Degree. Transfer credit: CSU*

CJ M18 -- 3 Units
Narcotics Investigation
Prerequisite: None
Class Hours: 3 lecture
Reviews identification of marijuana, opiates, dangerous drugs, hallucinogens, and their paraphernalia. Includes principles of identifying and dealing with the "user"; laws and court decisions relating to the offender; fundamentals of search and arrest strategies; report writing and court testimony; and prevention and control of drug abuse within society. *Applies to Associate Degree. Transfer credit: CSU*

CJ M19 -- 3 Units
Vice Control
Prerequisite: None
Class Hours: 3 lecture
Reviews the knowledge and skill needed to recognize, investigate, and control vice offenders, including gambling, prostitution, liquor, sex offender violations, vice law, and corresponding court procedures. *Applies to Associate Degree. Transfer credit: CSU*

CJ M22A/B -- 1 to 3 Units Each
Independent Studies in Criminal Justice
Prerequisite: A previous course in Criminal Justice
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of criminal justice through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. *Applies to Associate Degree. Transfer credit: CSU*

CJ M41 -- 3 Units
Introduction to Probation, Parole and Corrections
Prerequisite: None
Class Hours: 3 lecture
Introduces legal and practical aspects, practices, and procedures of probation, emphasizing an analysis of rehabilitation and classification criminology methods. *Applies to Associate Degree. Transfer credit: CSU*

CJ M60A-Z -- 1 to 3 Units Each
Topics in Criminal Justice
Prerequisites: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

CJ M80 -- 1 to 4 Units
Internship in Criminal Justice
Prerequisite: Completion or concurrent enrollment in a course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance course work under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluation. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. *Applies to Associate Degree. Transfer credit: CSU, credit limitations.*

CJ M89A-Z -- 0.5 to 3 Units Each
Institutes in Law Enforcement
Prerequisites: CJ M01, M02, M03, M04 and M05 (Core) or possession of P.O.S.T. Basic Certificate.
Class Hours: As arranged
Series concentrates on specialized law enforcement technology designed for criminal justice personnel. *Only offered credit/no credit. Applies to Associate Degree.*

**DANCE**

People who study in the various specialties of dance (ballet, modern, jazz and tap) may decide on a professional career on stage, television or films. A large number become teachers, either in public school (K-12, community college or university), private school (pre-school, and K-12) and private colleges and universities. Some will teach in community recreation centers, private community studios or open their own studio. The dance program is designed for both the student who wishes to major in dance and the student seeking to experience dance technique classes. The grace, carriage and confidence one gains in dance as well as the physical agility and flexibility is beneficial to everyone in all aspects of life. Dance activity classes fulfill the Physical Education requirement for graduation.

**Career Opportunities**

Actor/Actress, Agent, Arts and Studio Management, Arts Consultant, Chiropractor, Choreographer, Community Center Leader, Costumer, Dance Critic/Writer, Dance Historian, Dance Teacher, Dancer, Fitness Trainer, Lighting Designer, Masseuse, Movement Consultant, Movement Therapist, Physical Therapist, Recreation Specialist, Sports Trainer, Stage Manager

**Dean**
Sid Adler, Phone (805) 378-1443

**Faculty**

**Full-Time**
Daniel Berney

**Part-Time**
Rene Baum, Kathryn Bingham, Avalon Garrett, Donald Hewitt, Margaret Hyun, Lisa Lock, Sandra Patterson, Elizabeth Maxwell, Dennon Rawles, Saybber Rawles
Dance Courses

DANC M01A -- 3 Units
Dance Appreciation
Prerequisite: None
Class Hours: 3 lecture
Examines dance through viewing dance performances and through lectures and discussions, focusing on the historical, cultural and artistic developments and factors that influence change in dance. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC.

DANC M10A -- 1.5 Units
Ballet I-Fundamentals
Prerequisite: None
Class Hours: 1 lecture, 2 activity
Introduces basic ballet technique and terminology, including general principles of alignment, centering and posture. Requires exercises at the barre to develop flexibility, strength, control and coordination. Includes resilience and center practice of Port des Bras, simple adage and allegro movements. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC.

DANC M10B -- 1.5 Units
Ballet II-Beginning
Prerequisite: DANC M10A
Class Hours: 1 lecture, 2 activity
Introduces new movements and terminology as part of the basic ballet technique, both at the barre and in center, combining basic movements into adage and allegro patterns. Stresses heightened technical skills. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC.

DANC M10C -- 1.5 Units
Ballet III-Intermediate
Prerequisite: DANC M10B
Class Hours: 1 lecture, 2 activity
Introduces knowledge and development of intermediate technique both at the barre and in center, concentrating on the discipline of ballet form and the physical abilities necessary to execute movements. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC.

DANC M10D -- 2 Units
Ballet IV-Advanced
Prerequisite: DANC M10C
Class Hours: 1 lecture, 3 activity
Expands review of ballet, emphasizing analysis and application of kinesthetic principles to further develop skills, techniques, and physical capabilities. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC.

DANC M11A -- 1.5 Units
Modern Jazz I-Fundamentals
Prerequisite: None
Class Hours: 1 lecture, 2 activity
Introduces basic movement skills of modern jazz technique, emphasizing understanding and appreciation of dance as an artistic form. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC.

See Degree Requirements and Transfer Information section for General Education requirements.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
<th>Class Hours</th>
<th>Notes</th>
<th>Transfer Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAN C M11B</td>
<td>1.5</td>
<td>Modern Jazz II-Beginning</td>
<td>DAN C M1A</td>
<td>1 lecture, 2 activity</td>
<td>Develops basic skills of modern jazz technique, emphasizing compositional forms and rhythms that lead to understanding and appreciation of jazz as an artistic dance form. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
<td></td>
</tr>
<tr>
<td>DAN C M11C</td>
<td>1.5</td>
<td>Modern Jazz III-Intermediate</td>
<td>DAN C M11B</td>
<td>1 lecture, 2 activity</td>
<td>Continues introduction of modern jazz, emphasizing style and form as well as increased technical and choreographic skills. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
<td></td>
</tr>
<tr>
<td>DAN C M11D</td>
<td>2</td>
<td>Modern Jazz IV-Advanced</td>
<td>DAN C M11C</td>
<td>1 lecture, 3 activity</td>
<td>Offers advanced review of modern jazz, emphasizing performance for style and form as well as increased technical and choreographic skills. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
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</tr>
<tr>
<td>DAN C M12A</td>
<td>1.5</td>
<td>Modern Dance I-Fundamentals</td>
<td>None</td>
<td>1 lecture, 2 activity</td>
<td>Introduces modern dance as an art form. Reviews the fundamental techniques that develop flexibility, strength, control, coordination, endurance and form as well as the basic principles, evaluation and application of dance composition. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
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<tr>
<td>DAN C M12B</td>
<td>1.5</td>
<td>Modern Dance II-Beginning</td>
<td>DAN C M12A</td>
<td>1 lecture, 2 activity</td>
<td>Develops basic modern dance skills and techniques, including simple improvisation and composition as well as the understanding of the principles of alignment and motion. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
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</tr>
<tr>
<td>DAN C M12C</td>
<td>2</td>
<td>Modern Dance III-Intermediate</td>
<td>DAN C M12B</td>
<td>1 lecture, 3 activity</td>
<td>Expands appreciation of dance as a creative art form. Focuses on modern dance techniques emphasizing increased flexibility, strength, and coordination. Reviews dance phrase combinations by integrating rhythm, design, dynamics and motivation. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
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<tr>
<td>DAN C M12D</td>
<td>2</td>
<td>Modern Dance IV-Advanced</td>
<td>DAN C M12C</td>
<td>1 lecture, 3 activity</td>
<td>Continues exploration of modern dance technique, emphasizing performance, composition and choreography. May be taken four (4) times for credit. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
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</tr>
<tr>
<td>DAN C M13A</td>
<td>1.5</td>
<td>Tap I-Fundamentals</td>
<td>None</td>
<td>1 lecture, 2 activity</td>
<td>Introduces some history of tap as well as basic tap techniques and elementary dances, routines and rhythm structures. Develops motor coordination and rhythm. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
<td></td>
</tr>
<tr>
<td>DAN C M13B</td>
<td>1.5</td>
<td>Tap II-Beginning</td>
<td>DAN C M13A</td>
<td>1 lecture, 2 activity</td>
<td>Expands tap dancing techniques, including music theory concepts and syncopated rhythms. Further develops motor coordination and rhythm and expands historical awareness. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
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</tr>
<tr>
<td>DAN C M14A</td>
<td>2</td>
<td>Choreography, Modern Dance-Fundamentals</td>
<td>DAN C M12B</td>
<td>1 lecture, 3 activity</td>
<td>Introduces basic principles and practical applications of dance composition. Focuses on forms of expression; develops space, time and energy into dance; and integrates dance movement technique as a form of expression. Requires solo and small group choreography and improvisations. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
<td></td>
</tr>
<tr>
<td>DAN C M14B</td>
<td>2</td>
<td>Choreography, Modern Dance-Beginning</td>
<td>Intermediate modern dance class</td>
<td>1 lecture, 3 activity</td>
<td>Explores dance as a creative art form by integrating dance movement technique as a form of expression to communicate literal and non-literal themes. Requires solo and small group choreography and improvisations. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
<td></td>
</tr>
<tr>
<td>DAN C M14C</td>
<td>2</td>
<td>Choreography, Modern Dance-Intermediate</td>
<td>Intermediate modern dance class</td>
<td>1 lecture, 3 activity</td>
<td>Expands dance as a creative art form, combining movement with the use of music and sound. Requires substantial solo work performed in a concert setting. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
<td></td>
</tr>
<tr>
<td>DAN C M14D</td>
<td>2</td>
<td>Choreography, Modern Dance-Advanced</td>
<td>Advanced dance class or equivalent</td>
<td>1 lecture, 3 activity</td>
<td>Uses elements of space, time and energy to develop dance as an art form, working with literal and non-literal themes. Provides opportunity to choreograph a group dance for a concert piece. May be taken four (4) times for credit. DAN C formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC</td>
<td></td>
</tr>
</tbody>
</table>
DANC M20A -- 1.5 Units
Free Dance/Improvisation I
Prerequisite: None
Recommended Preparation: Concurrent enrollment in modern dance
Class Hours: 1 lecture, 2 activity
Encourages joy of movement, allowing unique and creative expressions in dance. (Same course as Theatre Arts M17). May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M20B -- 1.5 Units
Free Dance/Improvisation II
Prerequisite: DANC M20A
Class Hours: 1 lecture, 2 activity
Provides creative, free environment and encourages expressive dance movements for enjoyment, communication and performance. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M20C -- 1.5 Units
Free Dance/Improvisation III
Prerequisite: A beginning dance class
Class Hours: 1 lecture, 2 activity
Encourages creation of appropriate movement responses to express ideas and feelings. Provides various stimulation and develops organic, spontaneous dance responses. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M22A/B -- 1 to 3 Units Each
Independent Studies in Dance
Prerequisite: A previous course in Dance
Class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of dance through research, lab work, or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

DANC M30A -- 1.5 Units
Ballroom I
Prerequisite: None
Class Hours: 1 lecture, 2 activity
Introduces history, music and fundamental practices of ballroom dancing. Includes basic steps, variations and styling techniques for the fox trot, swing, waltz, cha-cha, tango, rumba, samba, mambo, polka and selected novelty dances. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M30B -- 1.5 Units
Ballroom II
Prerequisite: DANC M30A
Class Hours: 1 lecture, 2 activity
Expands expertise in ballroom dancing by reviewing basic steps and increasing styling techniques for the fox-trot, swing, waltz, cha-cha, tango, rumba, samba, mambo, polka and selected novelty dances. Requires attendance at out of class dance. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M31A -- 1.5 Units
World Dance, Ethnic Folk Forms I
Prerequisite: None
Class Hours: 1 lecture, 2 activity
Focuses on understanding and appreciation of ethnic dance skills. Includes experiences in Folk, Square, and Round dancing. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M31B -- 1.5 Units
World Dance, Ethnic Folk Forms II
Prerequisite: DANC M31A
Class Hours: 1 lecture, 2 activity
Continues study of Folk, Square, and Ethnic dance skills. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M32 -- 1.5 Units
Swing Dance
Prerequisite: None
Class Hours: 1 lecture, 2 activity
Introduces American Swing Dance in the 20th century, exploring dance vocabulary, dance courtesy, fundamentals of music related to dance and dance history. Includes vintage dance forms as well as current trends. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC pending.

DANC M40 -- 2 Units
Ballet Variations
Prerequisite: DANC M10B or equivalent
Class Hours: 1 lecture, 3 activity
Ballet Variations continues development of technical skills with emphasis on developing artistic expression through exposure to classical and contemporary variations. Transfer credit: CSU; UC

DANC M43 -- 2 Units
Jazz Dance Roots
Prerequisite: DANC M11C
Class Hours: 1 lecture, 3 activity
Explores the origins and influences of jazz and their effect on the styles and trends of the day. Reviews contributions from international dance companies and dance innovators, including Martha Graham, Jack Cole, Kathryn Dunham, Bob Fosse, Agnes DeMille and Jerome Robbins. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M51A -- 1.5 Units
Dance Performance/Production I
Prerequisite: Beginning dance class
Recommended Preparation: Concurrent enrollment in dance class
Class Hours: 1 lecture, 2 activity
Introduces and then applies basic elements of production (staging, lighting, publicity, make-up, costumes, set design and construction) through participation in a staged event/dance. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M51B -- 1.5 Units
Dance Performance/Production II
Prerequisite: DANC M51A
Recommended Preparation: Concurrent enrollment in dance class
Class Hours: 1 lecture, 2 activity
Requires practical involvement in the elements of dance production "behind the scenes" as well as on stage. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC
DANC M51C -- 1.5 Units
Dance Performance/Production III
Prerequisite: Beginning dance class
Recommended Preparation: Concurrent enrollment in another dance class
Class Hours: 1 lecture, 2 activity
Emphasizes practical experience of dance productions, concerts and demonstrations, emphasizing dance as a performing art. Reviews choreography, staging and the production elements of dance. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M51D -- 2 Units
Dance Performance/Production IV
Prerequisite: Intermediate dance class
Recommended Preparation: Concurrent enrollment in dance class
Class Hours: 1 lecture, 3 activity
Offers practical experience in the many phases of dance productions, concerts and demonstrations. Primary focus on dance performance with some review of choreography and staging. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M52 -- 3 Units
Children's Dance Theatre
Prerequisite: None
Recommended Preparation: Concurrent enrollment in dance technique class
Class Hours: 2 lecture, 4 activity
Offers opportunities for creating, organizing, producing and performing in a dance production for children. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU

DANC M55 -- 3 Units
Dance Ensemble
Prerequisites: A previous dance course and concurrent enrollment in dance technique class
Class Hours: 2 lecture, 4 activity
Focuses on rehearsal and performance of choreography by students, faculty and/or outside guests. Requires performance in a formal concert. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC

DANC M60A-Z -- 1 to 3 Units
Topics in Dance
Prerequisites: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

DANC M60V -- 3 Units
Viewing Dance
Prerequisite: None
Class Hours: 3 lecture
Views a variety of concert dances (live and video): ballet, modern, tap, jazz, and musicals. Encourages critical thinking and heightens appreciation of dance as art form. Choreographers could apply expanded viewpoints to future productions. May be taken two (2) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations

DANC M80 -- 1 to 4 Units
Internship in Dance
Prerequisite: Completion or concurrent enrollment in a course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance course work under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluation. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. DANC formerly DANCE. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

DESIGN
See courses in Art, Graphics, and Interior Design
DRAFTING

The Drafting Technology program prepares the student for careers related to mechanical drafting and design, engineering, structural and artistic architecture, and computer animation. Students will be trained in the use of computer-aided design (using AutoCAD), as well as conventional drafting machines and instruments. Advanced students will have the opportunity to take 3D and animation courses using the world-renowned computer software 3-D Studio Max. They will then learn to prepare animated scenes for rendering using special effect lighting and surface materials.

Career Opportunities

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

Dean

To be announced, Phone (805) 378-1572

Faculty

Part-Time

Cheryl Barrett, Michael Berman, Tommie Craft, Jamie Crowley, Hariach Ladan, Raymond Patrick

Counselors

Edna Ingram, Letrisha Mai, Danita R. Redd

Preparation for the Major:

MATH 1 or equivalent skills that may be measured by the college assessment process.

Drafting Courses

DRFT M01 -- 3 Units
Introduction to Drafting
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces use and care of drafting equipment and instruments, lettering, theory of orthographic projection, pictorial drawings, sketches, and working drawings. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU

DRFT M02A -- 3 Units
Computer-Aided Drafting I
Prerequisite: DRFT M01
Class Hours: 2 lecture, 3 lab
Introduces AutoCAD (Computer-Aided Design software). Explores CAD drawing and editing concepts, principles, and commands while preparing technical drawings. May be taken two (2) times for credit. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU

DRFT M02B -- 3 Units
Computer-Aided Drafting II
Prerequisite: DRFT M02A
Class Hours: 2 lecture, 3 lab
Introduces two-dimensional and three-dimensional drawings through exploration of intermediate and advanced functions. May be taken two (2) times for credit. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU

DRFT M03A -- 3 Units
Architectural Drafting I
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces fundamentals of preparing architectural drawings, emphasizing use and care of drafting equipment and instruments, lettering, line work and dimensioning. Focuses on preparing various plans, elevation and sectional views as well as details, sketches, working drawings, orthographic and isometric drawings. Presents basic elements of building requirements and codes. May be taken two (2) times for credit. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU

DRFT M03B -- 3 Units
Architectural Drafting II
Prerequisite: DRFT M03A
Class Hours: 2 lecture, 3 lab
Introduces preparation and interpretation of architectural drawings and specifications, emphasizing wood frame construction and application of local planning ordinances, uniform building codes and architectural graphic standards. May be taken two (2) times for credit. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU

DRFT M03C -- 3 Units
Architectural Drafting III
Prerequisite: DRFT M03B
Class Hours: 2 lecture, 3 lab
Introduces preparation and interpretation of architectural drawings, emphasizing heavy timber, concrete, masonry, and steel construction. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU

DRFT M04 -- 3 Units
Architectural CAD
Prerequisites: DRFT M02B and DRFT M03
Class Hours: 2 lecture, 3 lab
Introduces development of architectural drawings, using computer-aided drafting and three-dimensions for a walk-through effect. May be taken two (2) times for credit. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU

DRFT M06 -- 3 Units
Building Site Drafting
Prerequisite: DRFT M03
Class Hours: 2 lecture, 3 lab
Introduces civil engineering drafting, including survey notation, graphic translation of survey notes, grading, site planning and utilities. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU

DRFT M08 -- 3 Units
Energy Conservation Code
Prerequisite: None
Class Hours: 3 lecture
Introduces requirements and necessary forms regarding Title 24 of the State Energy Code. DRFT formerly DT. Applies to Associate Degree.

DRFT M09 -- 3 Units
Fundamentals of Structural Design
Prerequisites: MATH M01 and DRFT M01
Class Hours: 3 lecture
Analyzes and designs complete structural calculations for a residential, commercial and industrial buildings. DRFT formerly DT. Applies to Associate Degree. Transfer credit: CSU
DRFT M10 -- 3 Units
Construction Cost Estimating
Prerequisites: MATH M01 and DRFT M01
class Hours: 3 lecture
Introduces principles and practices for making quantity surveys and labor estimates on construction projects. Requires three (3) field trips. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU.

DRFT M11 -- 3 Units
Building Codes
Prerequisite: None
class Hours: 3 lecture
Introduces building codes related to structural, plumbing, heating, air conditioning, and electrical components of buildings constructed in Southern California. DRFT formerly DT. Applies to Associate Degree.

DRFT M13 -- 3 Units
Construction Materials
Prerequisite: None
class Hours: 3 lecture
Explores use and application of building materials to the structural composition of modern residential, commercial and industrial buildings. DRFT formerly DT. Applies to Associate Degree.

DRFT M14 -- 3 Units
Construction Blueprint Reading
Prerequisite: None
class Hours: 3 lecture
Focuses on reading construction drawings for typical buildings, including wood frame, masonry, concrete and steel construction used in residential, commercial and Industrial projects. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU.

DRFT M20 -- 3 Units
3D Modeling (Computer Animation)
Prerequisite: DRFT M02B
class Hours: 2 lecture, 3 lab
Introduces 3D Studio Max Software, exploring 3D modeling and animation with spatial three-dimensional effects in a Windows NT networked environment. Explores creation, modeling, and modification of a fully mapped and rendered scene complete with lights, cameras, and backgrounds. Requires creation of a basic animation. May be taken two (2) times for credit. DRFT formerly DT. Applies to Associate Degree. Transfer credit: CSU.

DRFT M21 -- 3 Units
Technical Animation (Computer Animation)
Prerequisite: DRFT M20
class Hours: 2 lecture, 3 lab
Introduces advanced materials and environmental effects of advanced technical animations. Explores the use of motion controllers and track views for editing keyframes, pivot points to link objects. Inverse Kinematics to create character animations, and special effects such as space warps, ripples, waves, wind and bombs. Requires creation of a fully mapped and animated scene complete with lights, backgrounds, and special effects. May be taken two (2) times for credit. DRFT formerly DT. Applies to Associate Degree. Transfer credit: CSU.

DRFT M22A/B -- 1 to 3 Units Each
Independent Studies in Drafting
Prerequisite: A previous course in Drafting Technology
class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of drafting technology/CAD through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. DRFT formerly DT. Applies to Associate Degree. Transfer credit: CSU.

DRFT M30 -- 3 Units
Mechanical Drawing
Prerequisite: DRFT M01
class Hours: 2 lecture, 3 lab
Expands mechanical drawing skills, including complete working drawings; exploded view and assembly drawings; section views, screws and fasteners, and inking and lettering. DRFT formerly DT. Applies to the Associate Degree. Transfer credit: CSU.

DRFT M32 -- 3 Units
Mechanical Blueprint Reading
Prerequisite: None
class Hours: 3 lecture
Focuses on interpreting mechanical drawings typical of those found in mechanical field theory, including common types of projections, dimensioning principles, and machine standards. Requires creative sketching and blueprint interpretation. DRFT formerly DT. Applies to Associate Degree.

DRFT M60A-Z -- 0.5 to 3 Units Each
Topics in Drafting Technology/CAD
Prerequisites: To be determined
class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

DRFT M80 -- 1 to 4 Units
Internship in Drafting
Prerequisite: Completion or concurrent enrollment in a course in the discipline.
class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance course work under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluation. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. DRFT formerly DT. Applies to Associate Degree. Transfer credit: CSU; credit limitations.

DRFT M89A-Z -- 0.5 to 3 Units Each
Institutes in Drafting Technology/CAD
Prerequisite: None
class Hours: As arranged
Short lecture series emphasizes acquisition of specialized drafting skills through application of appropriate activities. Series only offered credit/no-credit. DRFT formerly DT. Applies to Associate Degree.

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

Most careers require bachelor's or graduate degree.
Economist, Assessor, Financial Planner, Stock Broker, Securities Analyst, Management Trainee, Economic Development Coordinator

Dean
Al Nordquist, Phone (805) 378-1445
Economics

Faculty

Full-Time
Peter Gucciardo, Robert Herman

Part-Time
Rex Edwards, Fred Starner

Counselor
Ofelia Romero-Motlagh

Economics Courses

ECON M01 -- 3 Units
Principles of Micro-Economics
Prerequisite: None
Class Hours: 3 lecture
Introduces issues of economic policy, especially those related to the efficient use of scarce resources. Develops a method of thinking by investigating and applying the principles of economic inquiry to the consumption, production, and distribution of resources. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: ECON 4

ECON M02 -- 3 Units
Principles of Macro-Economics
Prerequisite: None
Class Hours: 3 lecture
Introduces issues of economic policy, related to levels of employment as well as prices and rate of economic growth. Expands application of principles of economic inquiry. Focuses on economic institutions and policies that influence aggregate economic activity. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: ECON 2

ECON M04 -- 3 Units
Economic Development of the United States
Prerequisite: None
Class Hours: 3 lecture
Introduces the evolution of U.S. economic institutions as revealed by economic analyses and quantitative data as well as the application of economics to social change and economic problems. Applies to the Associate Degree. Transfer credit: CSU; UC

ECON M22A/B -- 1 to 3 Units Each
Independent Studies in Internship in Economics
Prerequisite: A previous course in Economics
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of economics through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ECON 2

ECON M30 -- 3 Units
Introduction to Business and Economics
Prerequisite: None
Recommended Prep: Completion of ENGL M02
Class Hours: 3 lecture
Examines basic concepts and functions of business and the application of economic principles. Explores business organization, ethics, finance, accounting, securities markets, supply and demand, the banking system, and international business, emphasizing practical applications. (Same course as BUS M30). Applies to the Associate Degree. Transfer credit: CSU; UC

Electronics Technology

ECON M60A-Z -- 1-3 Units Each
Topics in Economics
Prerequisites: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the Schedule of Classes.

Developed topics include:

ECON M60A -- 3 Units
The USSR in Transition: The Economy
Prerequisite: None
Class Hours: 3 lecture
Explores economic reforms in the Soviet Union. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ECON 4

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 electronics 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

Associate Degree Level
Automobile Electronics Technician, Communications Technician, Electronics Assembly Supervisor, Electronics Maintenance Technician, Electronics Metrology Technician, Electronics Troubleshooter, Field Service Representative, Instrumentation Technician, Numerical Control Technician, Test Equipment Technician, Computer Repair, Computer Technician, Electronics Assembly, Electronics Sales, Electronics Technician, Microwave Technician, Robotics Technician

Most careers require bachelors or graduate degree.
Electronics Instructor, Field Engineer, Sales Engineer, Technical Trainer

Dean

Floyd Martin, Phone (805) 378-1459
Electronics Technology

Faculty

Full-Time
Sergio Monteiro

Part-Time
Frank Jones, Mark Kopitz, Linda Perez, Craig Reinhart, Leon Rouge, Leonard Zakas

Counselors
Edna Ingram, Letisha Mal, Dunita R. Redd

Electronics Technology Degree (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 PCs.

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 in electronics are to take EL M1/M1L prior to or concurrently with EL M10/M10L

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL M10/M10L</td>
<td>Passive Circuits/Lab</td>
<td>4</td>
</tr>
<tr>
<td>EL M16/M16L</td>
<td>Analog Circuits/Lab</td>
<td>4</td>
</tr>
<tr>
<td>EL M17/M17L</td>
<td>Digital Circuits/Lab</td>
<td>4</td>
</tr>
<tr>
<td>EL M18</td>
<td>PC Repair and Upgrade</td>
<td>3</td>
</tr>
<tr>
<td>EL M21</td>
<td>Microprocessors and Microcomputers</td>
<td>2</td>
</tr>
<tr>
<td>EL M23</td>
<td>Computer-Aided Circuit Analysis - PSpice</td>
<td>2</td>
</tr>
<tr>
<td>EL M25</td>
<td>LabVIEW: Data Acquisition &amp; Instrument Control</td>
<td>2</td>
</tr>
<tr>
<td>EL M27</td>
<td>Microcomputer Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

TOTAL minimum units required in major area: 23

Recommended Course: EL M29, EL M30, EL M31

Suggested Course Sequence:

First Semester

- EL M10/M10L
- EL M16/M16L

TOTAL: 8

Second Semester

- EL M17/M17L
- EL M18

TOTAL: 7

Third Semester

- EL M21
- EL M23

TOTAL: 4

Fourth Semester

- EL M27
- EL M25

TOTAL: 4

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

Network Engineer Degree (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 that includes analog and digital electronics (listed in the Electronics Technology section), and DOS and Windows (listed in the Computer Information Systems section). In addition to these required courses, students are encouraged to take advantage of the courses in word processing, spreadsheets, database (listed in the Computer Information Systems section), as well as C, C++, visual C and other programming languages (listed in the Computer Science section).

Required Courses: Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS M17</td>
<td>Introduction to Windows 95</td>
<td>1</td>
</tr>
<tr>
<td>CNSE M11</td>
<td>Networking Technologies</td>
<td>1.5</td>
</tr>
<tr>
<td>CNSE M20</td>
<td>NetWare 5 Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNSE M21</td>
<td>NetWare 5 Advanced Administration</td>
<td>2</td>
</tr>
<tr>
<td>CNSE M23</td>
<td>IntranetWare: Integrating Windows NT</td>
<td>2</td>
</tr>
<tr>
<td>EL M10/M10L</td>
<td>Passive Circuits/Lab</td>
<td>4</td>
</tr>
<tr>
<td>EL M16/M16L</td>
<td>Analog Circuits/Lab</td>
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<td>2</td>
</tr>
<tr>
<td>EL M27</td>
<td>Microcomputer Applications</td>
<td>2</td>
</tr>
</tbody>
</table>

TOTAL minimum units required in major area: 29.5

Suggested Course Sequence:

First Semester

- GIS M17
- EL M10/M10L
- EL M16/M16L

TOTAL: 9

Second Semester

- EL M17/M17L
- EL M18

TOTAL: 7

Third Semester

- EL M21
- EL M23
- CNSE M11
- CNSE M20

TOTAL: 7.5

Fourth Semester

- EL M27
- CNSE M21
- CNSE M23

TOTAL: 6

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

EL M01 -- 3 Units
Introduction to Electronics
Prerequisite: MATH M01 or equivalent skills measured by the college assessment process or one year of high school algebra
Class Hours: 3 lecture
Introduces basic concepts and theory of electronics, including applications to business, science, industry and entertainment. Reviews electron theory to microcomputers, emphasizing passive and active devices, amplifiers, oscillators and digital circuits. Applies to Associate Degree.

EL M01L -- 1 Unit
Introduction to Electronics Laboratory
Prerequisite: Concurrent or previous enrollment in EL M01
Class Hours: 3 lab
Provides hands-on experience, emphasizing the practical use of electronic parts, circuit breadboarding and measurement equipment. Applies to Associate Degree.

EL M02 -- 3 Units
Introduction to Microprocessors
Prerequisite: None
Class Hours: 3 lecture
Introduces operation and application of the microprocessor, including numbering systems and basic logic building blocks; partitioning and architecture; interfacing and interface devices; the TTL, CRT, keyboard, and cassette loader; and programming and microprocessor applications. Course stresses 8080 microprocessor. Applies to Associate Degree.

EL M08 -- 1.5 Units
PC Hardware for Novices
Prerequisite: None
Class Hours: 2.5 lecture, 1.5 lab for 8 weeks
Introduces the IBM compatible personal computer and how its individual features and components work as part of the complete system. Requires work with PC components, the Internet and basic DOS operations. May require a four-hour weekend field trip. May be taken two (2) times for credit. Applies to Associate Degree.

EL M10 -- 3 Units
Passive Circuits
Prerequisites: Previous experience in electronics or concurrent enrollment in EL M01/M01L
Corequisite: EL M10L
Class Hours: 3 lecture
Introduces main passive components of electronic circuits, including resistors, capacitors, and inductors. Reviews AC and DC circuits, noting their variation with temperature, current, and electronic environment as well as their reliability and manufacturing methods. Applies to Associate Degree.

EL M10L -- 1 Unit
Passive Circuits Laboratory
Prerequisite: None
Corequisite: EL M10
Class Hours: 3 lab
Provides hands-on experience, measuring AC and DC circuits, including electrical potential and currents (magnitude and phase) as a function of frequency and environmental factors (temperature, current, voltage, humidity and aging) on passive devices. Applies to Associate Degree.

EL M16 -- 3 Units
Analog Circuits
Prerequisite: None
Corequisites: EL M10/M10L, EL M16L or equivalent electronics work experience
Class Hours: 3 lecture
Analyzes active electronic devices such as diodes, transistors, FETs and op-amps. Reviews DB, gain, frequency response and feedback. Applies to Associate Degree.

EL M16L -- 1 Unit
Analog Circuits Laboratory
Prerequisite: None
Corequisite: Concurrent enrollment in EL M16
Class Hours: 3 lab
Provides hands-on experience with building circuits through individual projects. Applies to Associate Degree.

EL M17 -- 3 Units
Digital Circuits
Prerequisites: EL M01/M01L or equivalent electronics work experience
Corequisite: EL M17L
Class Hours: 3 lecture
Introduces main digital logic functions (AND, OR and other gates; Flip-flops; counters; and decoders) and their applications (stopwatches, frequency counters, and digital oscilloscopes). Applies to Associate Degree.

EL M17L -- 1 Unit
Digital Circuits Laboratory
Prerequisite: Concurrent enrollment in EL M17
Class Hours: 3 laboratory
Provides hands-on experience building circuits through the design and construction of individual projects, such as digital clock, stopwatch, and hardware logic that control a microwave. Builds on individual needs. Applies to Associate Degree.

EL M18 -- 3 Units
PC Repair and Upgrade
Prerequisite: EL M08 or equivalent experience
Class Hours: 2.5 lecture, 1.5 lab
Designed for those needing advanced knowledge and skills to repair/upgrade personal computers. Introduces major operating systems and uses DOS commands to demonstrate basic PC operations. Reviews history of computing, types of processors, motherboards, cache, floppy drives, hard drives, video cards, monitors, modems, printers and scanners, internal operations, alternative operating systems, programming Internet options and networking. Provides option to prepare for national A+ Computer Repair Certification exams. May be taken two (2) times for credit. Applies to Associate Degree.

EL M20 -- 3 Units
Communication Electronics
Prerequisites: EL M16/M16L
Class Hours: 3 lecture
Introduces modern communication devices and systems, covering analog and digital communications, antennas, transmission lines, fiber optics and microwaves as well as various modulation and demodulation techniques. Applies to Associate Degree.

EL M20L -- 1 Unit
Communication Electronics Laboratory
Prerequisites: EL M16/M16L and concurrent enrollment in EL M20
Class Hours: 3 laboratory
Provides hands-on experience constructing, testing and troubleshooting principles of communication electronics. Applies to Associate Degree.

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EL M21 -- 2 Units
Microprocessors and Microcomputers
Prerequisites: EL M17/M17L or equivalent electronics work experience
Class Hours: 1 lecture, 3 lab
Introduces microprocessors and applications, including typical programming techniques, I/O functions and interface. Discusses the Intel (8086) line of microprocessors and implements simple programs. Applies to Associate Degree.

EL M22A/B -- 0.5 to 3 Units Each
Independent Studies in Electronics
Prerequisite: A previous course in Electronics Technology
Class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of anthropology through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU.

EL M23 -- 2 Units
PSpice: Circuit Analysis
Prerequisites: CIS M15 or CIS M17 and EL M10/M10L and EL M16/M16L or equivalent work experience
Class Hours: 3 lecture, 5 lab
Introduces PSpice for computer simulation methods, covering basics of creating the circuits using passive (resistors, capacitors, inductors, transistors, diodes) and active (electric potential, current sources, transistors, FETs, operational amplifiers) devices. Emphasizes AC network analysis, including passive filters and Fourier analysis. May be taken four (4) times for credit. Applies to Associate Degree.

EL M24 -- 2 Units
Diagnostics, Trouble Shooting and Repair
Prerequisites: EL M16/M16L and EL M17/M17L
Class Hours: 1 lecture, 3 lab
Introduces basic procedures and methods used in troubleshooting typical electronic equipment. Emphasizes systematic approach applied to analog and digital circuits. Provides hands-on experience with troubleshooting principles. Applies to Associate Degree.

EL M25 -- 2 Units
LabVIEW: Applications
Prerequisites: CIS M17 and EL M8 or EL M18
Class Hours: 1 lecture, 3 lab
Introduces object-oriented data-acquisition and process-control systems, emphasizing practical applications such as temperature control and sound digitization. Allows individual access to software. LabVIEW short for Laboratory Virtual Instrument Engineering Workbench. Applies to Associate Degree.

EL M27 -- 2 Units
Microcomputer Applications
Prerequisites: EL M16/M16L and EL M21
Class Hours: 1 lecture, 3 lab
Introduces modern applications of microcomputers in science, engineering, and industry, focusing mainly on hardware but also some software. Includes I/O procedures for the serial and parallel ports, RS232C, IEEE-488, process control, measurement techniques, numeric control, and microprocessor development. Applies to Associate Degree.

EL M28 -- 3 Units
Industrial Electronics
Prerequisites: EL M17/M17L and EL M21
Class Hours: 3 lecture
Introduces modern electronics in industry, covering electrical power systems, transformers, motors, actuators, and switches as well as various electronic circuits that control/actuate electromechanical devices such as servo systems, transducers, and optoelectronic devices, computer control, and robotics. Applies to the Associate Degree. Transfer credit: CSU.

EL M28L -- 1 Unit
Industrial Electronics Laboratory
Prerequisite: Concurrent enrollment in EL M28
Class Hours: 3 lab
Provides hands-on experience with building, testing, and repairing modern industrial electronics circuits. Studies basic principles of process control through construction and operation of control electronics hardware. Applies to the Associate Degree. Transfer credit: CSU.

EL M29 -- 1 Unit
Industrial Seminar
Prerequisites: EL M16/M16L and EL M17/M17L
Class Hours: 1 lecture
Introduces various aspects of the electronics industry through series of guest lectures. Topics include recent advancements in electronics, job placement, resume writing, job interviews, and working in the industrial environment. Applies to Associate Degree.

EL M30 -- 3 Units
Broadcast Engineering Certification
Prerequisites: EL M16/M16L and EL M17/M17L or equivalent electronics work experience
Class Hours: 3 lecture
Introduces aspects of electronics, communications, regulations and engineering technology to pass the certification exam in broadcast engineering. Certification issued to those who pass test. Applies to Associate Degree.

EL M31 -- 3 Units
Telephone and Wire Communication Certification
Prerequisites: EL M16/M16L and EL M17/M17L or equivalent electronics work experience
Class Hours: 3 lecture
Introduces 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. Certification issued to those who successfully complete course. Applies to Associate Degree.

EL M80 -- 1 to 4 Units
Internship in Electronics
Prerequisite: Completion or concurrent enrollment in a course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance course work under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluation. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

EL M89A-Z -- 0.5 to 3 Units Each
Institutes in Electronics
Prerequisite: None
Class Hours: As arranged
Short lecture series develops appropriate electronics abilities and skills, emphasizing specialized knowledge in a particular segment of electronics. Series only offered credit/no-credit. Applies to Associate Degree.
ENGINEERING

The field of engineering is a particularly broad one that 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

Most careers require bachelors or graduate degree.
Mechanical Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Water Quality Engineer, Nuclear Engineer, Environmental Engineer, Sanitary Engineer, Process Engineer, Hydraulic Engineer, Project Engineer, Geotechnical Engineer, Systems Engineer, Computer Engineer, Stationary Engineer, Aerospace Engineer Biomedical Engineer, Industrial Engineer, Manufacturing Engineer, Metallurgical Engineer, Mining Engineer, Naval Engineer, Petroleum Engineer, Plastics Engineer, Astronautical Engineer, Structural Engineer, Traffic Engineer, Electronic Systems Engineer, Automotive Engineer, Robotics Engineer, Artificial Intelligence Engineer, Military Pilot

Dean

Floyd Martin, Phone (805) 378-1459

Faculty

Full-Time
Fred Meyer

Part-Time
Robert Ayer, Hadi Darejeh, Michael Mitchell

Counselors
Edna Ingram, Letrisha Mai, Darita R. Redd

Engineering Degree

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 by 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 that may be helpful towards the seeking of immediate employment.

Preparation for the Major:
Mathematics — two years high school algebra plus trigonometry or MATH M3 and M7 or equivalent.
Chemistry — one year high school chemistry or CHEM M12 or equivalent.
Physics — one-year high school physics or PHYS M10A or equivalent. Engineering students are strongly encouraged to take advantage of summer school class offerings.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM M01A</td>
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<tr>
<td>ENGR M04</td>
<td>3</td>
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<tr>
<td>ENGR M12</td>
<td>3</td>
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<tr>
<td>ENGR M16</td>
<td>4</td>
</tr>
<tr>
<td>ENGR M20/M20L</td>
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<tr>
<td>MATH M25A</td>
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<tr>
<td>MATH M25B</td>
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<tr>
<td>MATH M25C</td>
<td>5</td>
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<tr>
<td>PHYS M20A/M20AL</td>
<td>5</td>
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<tr>
<td>PHYS M20B/M20BL</td>
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<tr>
<td>PHYS 20C/20CL</td>
<td>5</td>
</tr>
<tr>
<td>TOTAL</td>
<td>46</td>
</tr>
</tbody>
</table>

Suggested Course Sequence:

First Semester
CHEM M01A ................................................. 6
ENGR M04 ............................................... 3
MATH M25A ............................................... 5
Total .................................................... 14

Second Semester
ENGR M12 ............................................... 3
MATH M25B ............................................... 5
PHYS M20A/M20AL ...................................... 5
Total .................................................... 13

Third Semester
ENGR M16* ............................................. 4
MATH M25C ............................................... 5
PHYS M20B/M20BL ...................................... 5
Total .................................................... 10 or 14

Fourth Semester
ENGR M20/M20L* ...................................... 4
PHYS M20C/M20CL ...................................... 5
Total ..................................................... 5 or 9

* This degree requires either ENGR M16 or ENGR M20/M20L.

Engineering Courses

ENGR M04 -- 3 Units
Engineering and Design/CAD
Prerequisite: DT M01 or one year of high school drafting
Class Hours: 3 lecture, 3 lab
Introduces engineering as a profession by exploring systematic design techniques, written communication, and makeup of the various engineering programs. Requires extensive use of computer-aided drafting software and completion of design project. Applies to the Associate Degree. Transfer credit: CSU; UC: CAN: ENGR 2

ENGR M12 -- 3 Units
Engineering Materials
Prerequisites: CHEM M01A and PHYS M20A/M20AL
Class Hours: 3 lecture
Introduces engineering properties of materials, applying basic principles of the atomic and crystal structure of solids to the study of properties as well as to the selection and use of engineering materials. Applies to the Associate Degree. Transfer credit: CSU; UC: CAN: ENGR 4
ENGR M16 -- 4 Units
Engineering Statics and Strength of Materials
Prerequisites: PHYS M20A/M20AL
Class Hours: 4 lecture
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, and theories of strength. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: ENGR 8

ENGR M20 -- 3 Units
Electrical Engineering Fundamentals
Prerequisite: PHYS M20B
Corequisites: ENGR M20L, MATH M35
Class Hours: 3 lecture
Introduces theory and analysis of electrical circuits, 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. Reviews power, energy, impedance, phasors, and frequency response. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: ENGR 6 (ENGR M20 & M20L)

ENGR M20L -- 1 Unit
Electrical Engineering Fundamentals Laboratory
Prerequisite: PHYS M20BL
Corequisite: ENGR M20
Class Hours: 3 lab
Provides hands-on experience in passive and active electrical circuits, reinforcing electrical engineering concepts. Applies to the Associate Degree. Transfer credit: CSU; UC.

ENGR M22A/B -- 0.5 to 3 Units Each
Independent Studies in Engineering
Prerequisite: A previous course in Engineering
Class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of engineering through research, lab work, or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC.

ENGR M80 -- 1 to 4 Units
Internship in Engineering
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

ENGG TECHNOLOGY

With emphasis on practical skills, the Engineering Technology courses are targeted at upgrading 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, Fiber Optic Technician, Fiber Optic Installer, Electro-Optic Technician, Research Technician, Electro-Optical Sales Specialist

Dean
Floyd Martin, Phone (805) 378-1459

Faculty
Full-Time
Clinton Harper
Part-Time
Hadi Darejah
Counselor
Edna Ingram

Engineering Technology Degree

Associate in Science Degree
See Physics, Electro-Optics Option

Engineering Technology Courses

ET M10 -- 2 Units
Introduction to Lasers and Fiber Optics
Prerequisite: MATH M03 or two years of high school algebra
Class Hours: 1.5 lecture, 1.5 lab
Offers comprehensive introduction to theory, operation and applications of lasers, fiber optics and associated instrumentation. Emphasizes hands-on activities and practical applications. Applies to Associate Degree.

ET M20 -- 2 Units
Introduction to Robotic Technology
Prerequisite: PHYS M10A or one year of high school physics
Class Hours: 1.5 lecture, 1.5 lab
Introduces robotic technology, emphasizing hands-on, practical industrial applications. Includes mechanical and electrical aspects of robot design, interfaces and integration, sensors, computer control and programming, application of case studies, robot economics and future trends. Provides on-campus robotics lab. Reviews more advanced topics such as underwater robotics, robotic rovers, robots in hazardous environments, machine vision, artificial intelligence, and medical applications. Applies to Associate Degree.

ET M80 -- 1 to 4 Units
Internship in Engineering Technology
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations.
Sequence of English Courses at Moorpark College

To discover your best starting point in this course sequence, participate in the assessment process.

Courses for students who are learning English as a foreign language

ESL PROGRAM
ESL M10, M23, M24, M25, M26, M30, M31, M32

A course for students whose primary language is English and a transition course for advanced ESL students

ENGL M03
WRITING SKILLS

ENGL M02
PREPARATORY ENGLISH

Meets the graduation requirements for AA or AS degrees

ENGL M01A
ENGLISH COMPOSITION

Required for transfer to four-year colleges and universities

ENGL M01B
LITERATURE, CRITICAL THINKING & COMPOSITION

Either ENGL M01B or M01C satisfies critical thinking requirement for CSU and UC transfer (IGETC)

ENGL M01C
CRITICAL THINKING & COMPOSITION

ADVANCED ENGLISH COURSES
(English M01A is a prerequisite for the following courses.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENGL M05</td>
<td>Radio/Television Script Writing</td>
</tr>
<tr>
<td>ENGL M10A/B</td>
<td>Creative Writing</td>
</tr>
<tr>
<td>ENGL M11</td>
<td>Report and Technical Writing</td>
</tr>
<tr>
<td>ENGL M13A/B</td>
<td>Major American Writers I &amp; II</td>
</tr>
<tr>
<td>ENGL M14</td>
<td>Study of Poetry</td>
</tr>
<tr>
<td>ENGL M15A/B</td>
<td>Survey of English Literature</td>
</tr>
<tr>
<td>ENGL M17</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>ENGL M18</td>
<td>The Modern American Novel</td>
</tr>
<tr>
<td>ENGL M19</td>
<td>Introduction to the Short Story</td>
</tr>
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<td>ENGL M20</td>
<td>Study of Drama</td>
</tr>
<tr>
<td>ENGL M21</td>
<td>Contemporary Novels</td>
</tr>
<tr>
<td>ENGL M25</td>
<td>Play Writing</td>
</tr>
<tr>
<td>ENGL M29A/B</td>
<td>Bible Literature, Old &amp; New Testaments</td>
</tr>
<tr>
<td>ENGL M30/31</td>
<td>Masterpieces in World Literature I &amp; II</td>
</tr>
<tr>
<td>ENGL M33</td>
<td>Modern European Fiction</td>
</tr>
<tr>
<td>ENGL M45</td>
<td>Hispanic American Literature</td>
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<tr>
<td>ENGL M46</td>
<td>African-American Literature</td>
</tr>
<tr>
<td>ENGL M47</td>
<td>Magazine Editing</td>
</tr>
</tbody>
</table>
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. See chart on previous page.

Career Opportunities

Most careers require bachelor or graduate degree.

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

Dean

Sid Adler, Phone (805) 378-1443

Faculty

Full-Time

Barbara Baker, Gillian Dale, John Davie, Bona Dillion, Hugo Ekback,
Norman Garber, Anne Kaischnik, Diana Lopez, Judith Ramos,
Patricia Ross, Hart Schulz, Pernela Sheridan, Sydney Sims,
Michael Strumpf, Tracy Tenn Butterhouse

Part-Time

Dale Alan Bailes, David Birchman, Stephen Bluestein, Jane Chapman,
Jimmy Crawford, Janet Cross, Fred D' Astolfi, Patti Della Corna,
Deborah Dixon, Richard Edwards, Shasta Gill, Beth Gills-Smith,
Charles Grogg, John Hantl, Bobbie Harris, Heather Horn,
Thomas Hughes, Derreatha Juarez, Clive Leeman, Heather McGehee,
Irene Mele, Steve Moes, James Nieson, Jean O'Sullivan,
Lindy Raveling, Sandra Rayl, Monika Savic, Sandra Schuman,
Jacklyn Scott, Nils Stattum, Hari Vishwanadha, Lori Wolf,
Kimberly York

Counselors

Mike Johnson, Mary Martin

English Courses

ENGL M01A -- 3 Units
English Composition
Prerequisite: ENGL M02 or equivalent skills measured by the assessment process.
Class Hours: 3 lecture
Emphasizes research and expository writing, demonstrating rhetorical organization, range of diction, clear sentence and paragraph construction, and command of the conventions of English usage. Develops analytical and interpretive reading skills. Applies to the Associate Degree. Transfer credit: CSU; UC CAN: ENGL 2; ENGL SEQ A (ENGL M01A+M01B).

ENGL M18 -- 3 Units
Literature: Critical Thinking/Composition
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Emphasizes critical thinking and writing skills in close textual analysis of issues and themes in fiction, poetry and drama as well as non-fictional literature and literary criticism. Reviews deductive and inductive reasoning, recognition and avoidance of logical fallacies, and relationships between language and meaning. Emphasizes detailed critical analysis. Applies to the Associate Degree. Transfer credit: CSU; UC CAN: ENGL 4; ENGL SEQ A (ENGL M01A+M01B).

ENGL M01C -- 3 Units
Critical Thinking and Composition
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Develops advanced levels of critical thinking, reading, and writing. Focuses on the development of logical reasoning as well as analytical and argumentative writing skills. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M02 -- 3 Units
Intro to College Writing (Formerly Preparatory English)
Prerequisite: None
Class Hours: 3 lecture
Introduces college level writing and emphasizing clear central ideas, coherent development, reasoned conclusions, variety of sentence structures, and freedom from basic grammar and punctuation errors. Stresses college-level reading. Applies to the Associate Degree.

ENGL M03 -- 3 Units
Writing Skills
Prerequisite: None
Class Hours: 3 lecture, 2 lab
Involves intensive practice in developing ideas, making clear statements and organizing information at the level of the paragraph. Emphasizes grammar, spelling, vocabulary building, sentence structure and composing strategies for short writings. Requires word processing in a computer lab. May be taken twice (2) times for credit. Does not apply toward a degree.

ENGL M05 -- 3 Units
Radio-Television Script Writing
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces the fundamentals of script format, professional methods, and the ethics and restrictions involved in the broadcasting media. Includes the preparation and analysis of dramatic scripts, program formats, public service announcements, local news, commercials, continuity, discussion programs, special events, talks and interviews. (Same course as RT M05). Applies to the Associate Degree. Transfer credit: CSU

ENGL M10A -- 3 Units
Creative Writing
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Workshop format. Concentrates on the techniques of writing fiction and poetry through the production of original works followed by discussion and analysis. Applies to the Associate Degree. Transfer credit: CSU; UC CAN: ENGL 6

ENGL M10B -- 3 Units
Creative Writing
Prerequisite: ENGL M10A
Class Hours: 3 lecture
Introduces advanced study of literary forms, emphasizing prose and poetry through practice, discussion and analysis. May be taken twice (2) times for credit. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M11 -- 3 Units
Report and Technical Writing
Prerequisite: ENGL M1A
Class Hours: 3 lecture
Provides extensive practice writing proposals, memorandums, letters, technical reports, and technical manuals. Demands complete and accurate writing, demonstrating situational analysis, appropriate structuring, careful research and documentation, and incorporation of data and graphics. Applies to the Associate Degree. Transfer credit: CSU
ENGL M13A -- 3 Units
Major American Writers I
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces American writing from the colonial era to the end of the Civil War, emphasizing works of major writers in their literary, historical and cultural contexts. Include such authors as Bradstreet, Taylor, Franklin, Poe, Melville and Whitman. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: ENGL 14; ENGL SEQ C (ENGL M13A+M13B).

ENGL M13B -- 3 Units
Major American Writers II
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces American writing from the post-Civil War to the present, emphasizing works of major writers in their literary, historical and cultural contexts. Includes such authors as Twain, James, Hemingway, Faulkner and Wright. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: ENGL 16; ENGL SEQ C (ENGL M13A+M13B).

ENGL M14 -- 3 Units
Study of Poetry
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces the study of poetry, emphasizing imagery, figurative language, symbolism, rhythm and diction. Examples drawn from American and British poetry. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M15A -- 3 Units
Survey of English Literature
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Surveys major works of British Literature from the Anglo-Saxon period to the end of the 18th century in their literary, historical and cultural contexts. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: ENGL 8; ENGL SEQ B (ENGL M15A+M15B).

ENGL M15B -- 3 Units
Survey of English Literature
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Surveys major works of British Literature from the beginning of the 19th century to the present in their literary, historical and cultural contexts. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: ENGL 10; ENGL SEQ B (ENGL M15A+M15B).

ENGL M17 -- 3 Units
Shakespeare
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Surveys twelve plays, including romantic comedies, chronicles, tragedies, "dark" comedies, and romances. Includes lectures, critical papers, and discussions. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M18 -- 3 Units
The Modern American Novel
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces representative novels by prominent American authors from the post Civil War period to the present, emphasizing critical perspectives and major contributions as well as of each work's relation to and reflection of its literary, historical and cultural backgrounds. Transfer credit: CSU; UC

ENGL M19 -- 3 Units
Introduction to Short Story
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces form and content of short stories, emphasizing critical reading and analysis of selected American and European literary examples. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M20 -- 3 Units
Study of Drama
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces the study of drama in its historical, cultural, and biographical context, including examples from ancient Greek tragedy to the Theatre of the Absurd. Emphasizes critical analysis demonstrated through major essays. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: ENGL 22

ENGL M21 -- 3 Units
Contemporary Novels
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Reviews post-World War II novels, American and foreign, emphasizing their relevance, innovation, style and literary value. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M22A/B -- 1 to 3 Units Each
Independent Studies in English
Prerequisite: A previous course in English
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of English through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC. Credit limitations.

ENGL M25 -- 3 Units
Play Writing
Prerequisite: None
Class Hours: 3 lecture
Develops skills needed in writing for the theatre. Offers opportunity of production. (Same course as THA M21). Applies to the Associate Degree. Transfer credit: CSU

ENGL M29A -- 3 Units
Old Testament as Literature
Prerequisite: None
Class Hours: 3 lecture
Introduces form, theme and style of the Books of the Old Testament, including the thirty-nine books from Genesis to Malachi. Includes historical perspective of the Old Testament Apocrypha. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M29B -- 3 Units
New Testament as Literature
Prerequisite: None
Class Hours: 3 lecture
Introduces form, theme and style of the Books of the New Testament, including nine of the twenty-seven books of the New Testament, from Matthew to Revelation. Applies to the Associate Degree. Transfer credit: CSU; UC
ENGL M50 -- 3 Units
Masterpieces of World Literature I
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Reviews representative authors from the time of Homer to the Renaissance, emphasizing selected Greek, Roman, Medieval and Renaissance masterpieces. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M51 -- 3 Units
Masterpieces of World Literature II
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Reviews major literature from the Renaissance to the present, including selected masterpieces from America, Britain, France, Germany and Russia. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M53 -- 3 Units
Modern European Fiction
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces major modern European fiction, including such authors as Dostoevsky, Tolstoy, Flaubert, Camus, Hesse, Gogol, Gide, Babel, and Mann. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M45 -- 3 Units
Hispanic American Literature
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Offers cross-cultural analytical examination of Hispanic American literature, emphasizing the influence of culture on each author's perception. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M46 -- 3 Units
African-American Literature
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces historical and critical analysis of African-American literature, emphasizing an understanding of the Black Experience as embodied in American writing. Includes readings from the 19th and 20th centuries. Applies to the Associate Degree. Transfer credit: CSU; UC

ENGL M47 -- 3 Units
Magazine Editing
Prerequisite: None
Class Hours: 2 lecture, 1 lab
Introduces the analysis, development, composition and layout of magazines or similar publications, emphasizing the coordination of feature stories and related articles with attractive pictorial displays. Also reviews graphic arts as related to magazine production. (Same course as JOUR M11A). Applies to the Associate Degree. Transfer credit: CSU

ENGL M48 -- 3 Units
Word Power
Prerequisite: None
Class Hours: 3 lecture
Develops listening, speaking, reading, and writing vocabularies by developing word analysis and vocabulary expansion skills. Includes study of Greek and Latin roots, prefixes, suffixes, synonyms, antonyms, dictation, word origins, contextual clues, and college level and professional vocabularies. Focuses on individual progress. Applies to the Associate Degree.

ENGL M50 -- 3 Units
Academic Reading and Study Skills
Prerequisite: None
Class Hours: 3 lecture
Introduces academic reading skills, emphasizing comprehension, speed, study skills, vocabulary development, awareness of current events, goal setting, and time management. Applies to Associate Degree.

ENGL M52 -- 3 Units
Advanced Academic Reading and Study Skills
Prerequisite: None
Class Hours: 3 lecture
Offers advanced instruction and practice in analyzing prose from various disciplines and difficulty levels. Emphasizes ability to recognize sophisticated prose structures, idea organization, and interrelationship of concepts. Reviews reading inferences, drawing conclusions, critically evaluating prose as well as developing vocabulary building, summary and study skills. Applies to the Associate Degree. Transfer credit: CSU

ENGL M60A-Z -- 1 to 3 Units Each
Topics in English
Prerequisites: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

ENGL M60A -- 3 Units
The Poetry of Chaucer
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Examines Chaucer's language and literary techniques through discussion and close reading of his major works, emphasizing "The Canterbury Tales" and "Trost and Criseyde." Requires critical analysis. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ENGL M60W -- 3 Units
Women in Medieval Literature
Prerequisite: ENGL M11A
Class Hours: 3 lecture
Introduces the historical, religious, and literary works of the Middle Ages with attention to their presentation of the nature and status of women. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ENGL M80 -- 1 to 4 Units
Internship in English
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ENGL M89A-Z -- 0.5 to 3 Units Each
Institutes in English
Prerequisite: None
Class Hours: As arranged
Series of special lectures and discussions on selected topics of interest in English. Offered credit/no-credit only. Applies to Associate Degree.
ENGLISH AS A
SECOND LANGUAGE

The English as a Second Language program prepares students for transfer-level courses and improves language facility in social and job situations.

Dean
Rene Rodriguez, Phone (805) 378-1404

Faculty

Full-Time
Gillian Dale, Judith Ramos

Part-Time
Stephen Bluestein, Patricia Della Corna, Monika Savic, Jacalyn Scott

Counselors
Chuck Brinkman, Mike Johnson

English as a Second Language Courses

ESL M10 -- 4 Units
Introduction to ESL
Prerequisite: None
Class Hours: 4 lecture, 1 lab
Helps incoming international students adjust to daily life transactions, including social and work situations. Emphasizes skills and knowledge needed for everyday verbal and written communication. Requires an hour of individualized work in language lab each week. Does not apply toward a degree.

ESL M23 -- 4 Units
Fundamentals in Listening and Speaking
Prerequisite: None
Class Hours: 4 lecture, 1 lab
Develops the listening and speaking skills of beginning students of English, emphasizing vocabulary acquisition, accurate pronunciation, and mastery of basic sentence structures. Requires participation in paired and small group conversations, word games, and class discussions. Includes responding to video clips, popular songs and radio news; lecture and note taking; role playing; and student oral presentations. Brief writing and reading and grammar study supplement oral language practice. May be taken three (3) times for credit. Formerly ENGL 4A. Does not apply toward a degree.

ESL M24 -- 4 Units
Listening and Conversation Practice
Prerequisite: ESL M23
Class Hours: 4 lecture, 1 lab
Provides practice in intermediate level English speaking and listening skills, emphasizing pronunciation, vocabulary, American English speech patterns, sentence phrasing, syllabication, and idioms. Requires participation in paired, group, and class projects to improve comprehension and verbal expression, such as speeches, debates, and discussion of news clips. Includes reading, writing, and grammar study to increase oral language proficiency. May be taken three (3) times for credit. Formerly ENGL 4B. Does not apply toward a degree.

ESL M25 -- 4 Units
Academic Communication
Prerequisite: ESL M24 or equivalent command of English listening and speaking skills
Class Hours: 4 lecture, 1 lab
Provides instruction in and practice of college-level academic listening and speaking skills, allowing effective comprehension needed for success in transfer level academic college courses. Includes expansion of vocabulary-building, listening, and discussion skills, demonstrated through oral and written critiques and through individual and group activities. Includes practice with diverse presentations (live speakers, video, TV, drama, documentary, lecture and group discussion). Formerly ENGL 4C. Does not apply toward a degree.

ESL M26 -- 1 Unit
Accent Reduction / American English Pronunciation
Prerequisite: None
Recommended Preparation: ESL M23 and M24
Class Hours: 3 lab
Emphasizes minimizing accents and mastering American English pronunciation. Includes speech diagnosis, introduction to the American English language, dynamics of sound formation, phonetic alphabet usage, intonation, stress, interpretation of a range of spoken and printed materials, vocabulary acquisition, and the development of a lifelong spoken language improvement plan. Lab requires teacher-supervised oral exercises and student practice of material on both audio and videotapes. Learning tapes model speech patterns, and blank tapes record speech production. May be taken three (3) times for credit. Formerly ENGL 7. Does not apply toward a degree.

ESL M30 -- 4 Units
Reading and Writing Fundamentals
Prerequisite: ESL M23 or appropriate score on ESL assessment test
Class Hours: 4 lecture, 1 lab
Offers practice in beginning level English reading and composition skills to students whose native language is not English but who have gained some fluency in spoken English. Uses newspapers, grocery ads, magazines and beginning texts. Introduces basic English syntax and sentence structure, spelling, phonics, present/past/future tenses as well as paragraph writing and revising. May be taken three (3) times for credit. Formerly ENGL 6A. Does not apply toward a degree.

ESL M31 -- 4 Units
Practice/Application in Reading and Writing
Prerequisite: ESL M30 or appropriate score on ESL assessment test
Class Hours: 4 lecture, 1 lab
Offers practice in intermediate reading and writing to strengthen and improve English vocabulary, reading comprehension and writing. Requires readings at the college-level and compositions based on world events, readings and personal experience. May be taken three (3) times for credit. Formerly ENGL 6B. Does not apply toward a degree.
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 page 91.
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

Dean
Floyd Martin, Phone (805) 378-1459

Faculty
Full-Time
Muthena Naseri

Part-Time
Gary Gilmartin, Dagmar Gloutak, Robert Miller, Rashid Sani

Counselors
Mary Martin, Danita R. Reid

Environmental Studies Degree

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 that may be helpful towards the seeking of immediate employment.

Preparation for the Major:
- Mathematics — two years high school algebra or MATH M3 or equivalent.

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

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH M02</td>
<td>3</td>
</tr>
<tr>
<td>CHEM M12</td>
<td>5</td>
</tr>
<tr>
<td>ECON M01</td>
<td>3</td>
</tr>
<tr>
<td>ENSC M01</td>
<td>4</td>
</tr>
<tr>
<td>ENSC M02</td>
<td>4</td>
</tr>
<tr>
<td>GEOL M02</td>
<td>3</td>
</tr>
<tr>
<td>GEOL M02L</td>
<td>1</td>
</tr>
<tr>
<td>MATH M15</td>
<td>3</td>
</tr>
<tr>
<td>MATH M16A</td>
<td>3</td>
</tr>
<tr>
<td>MATH M16B</td>
<td>3</td>
</tr>
<tr>
<td>POLS M03</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL minimum units required in major area</td>
<td>37</td>
</tr>
</tbody>
</table>

Suggested Course Sequence:

First Semester
- ECON M01
- ENSC M01
- POLS M03
- Total

Second Semester
- ENSC M02
- MATH M15
- Total

Third Semester
- CHEM M12
- MATH M16A
- Total

Fourth Semester
- ANTH M02
- GEOL M02
- GEOL M02L
- MATH M16B
- Total

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

Environmental Science Degree

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 that may be helpful towards the seeking of immediate employment.

Preparation for the Major:
- Mathematics — two years high school algebra plus trigonometry or MATH M03 and M07 or equivalent.
- Chemistry — one year high school chemistry or CHEM M12 or equivalent.
- Physics — one-year high school physics or PHYS M10A or equivalent.

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

Required Courses: Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL M02A</td>
<td>General Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL M02B</td>
<td>General Biology II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM M01A</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM M01B</td>
<td>General Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>ECON M01</td>
<td>Principles of Micro-Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENSC M01</td>
<td>Environmental Science</td>
<td>4</td>
</tr>
<tr>
<td>ENSC M02</td>
<td>Environment and Human Interactions</td>
<td>4</td>
</tr>
<tr>
<td>MATH M25A</td>
<td>Calculus with Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>MATH M25B</td>
<td>Calculus with Analytic Geometry II</td>
<td>5</td>
</tr>
<tr>
<td>MATH M25C</td>
<td>Calculus with Analytic Geometry III</td>
<td>5</td>
</tr>
<tr>
<td>PHYS M20A/M20AL</td>
<td>Mechanics of Solids and Fluids/Lab</td>
<td>5</td>
</tr>
<tr>
<td>PHYS M20B/M20BL</td>
<td>Electricity and Magnetism/Lab</td>
<td>5</td>
</tr>
</tbody>
</table>

TOTAL minimum units required in major: 56

Environmental Technology Degree

Associate in Science Degree

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 the Moorpark College Industrial Advisory committee of working professionals in the environmental field and will be reviewed annually. Graduates of the 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 M03 or equivalent.

Required Courses: Units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS M28</td>
<td>Microsoft Office Professional</td>
<td>3</td>
</tr>
<tr>
<td>CHEM M12</td>
<td>Introductory Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM M13</td>
<td>Introductory Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>EL M01/M01L</td>
<td>Introduction to Electronics/Lab</td>
<td>4</td>
</tr>
<tr>
<td>ENGL M01A*</td>
<td>English Composition I (D1)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL M11</td>
<td>Report and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENSC M01/M01L*</td>
<td>Environmental Science (A2)</td>
<td>4</td>
</tr>
<tr>
<td>ENSC M02/M02L*</td>
<td>Environment and Human Interactions (A1)</td>
<td>4</td>
</tr>
<tr>
<td>ENSC M04</td>
<td>Environmental Regulations</td>
<td>1.5</td>
</tr>
<tr>
<td>ENSC M05</td>
<td>Environmental Sampling &amp; Instrumentation</td>
<td>1.5</td>
</tr>
<tr>
<td>GEOL M01</td>
<td>Introductory Geology</td>
<td>3</td>
</tr>
<tr>
<td>H ED M01</td>
<td>Health and Society (E1)</td>
<td>2</td>
</tr>
<tr>
<td>MATH M15*</td>
<td>Introductory Statistics (D2)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS M01</td>
<td>Descriptive Physics</td>
<td>3</td>
</tr>
<tr>
<td>SPCH M01*</td>
<td>Introduction to Speech (C2)</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL required units in major: 50-21 (GE) = 29

*General Education (A1–E1 define general education categories)

Recommended Electives: CIS; CS M01/M01L; DRPT M01, M02A; PSY M11

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

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

Environmental Technology Certificate

Certificate of Achievement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENSC M01/M01L</td>
<td>Environmental Science/Lab</td>
<td>4</td>
</tr>
<tr>
<td>ENSC M04</td>
<td>Environmental Regulations</td>
<td>1.5</td>
</tr>
<tr>
<td>CIS M28</td>
<td>Microsoft Office</td>
<td>3</td>
</tr>
<tr>
<td>GEOL M01</td>
<td>Introductory Geology</td>
<td>3</td>
</tr>
<tr>
<td>MATH M09</td>
<td>Pre-Algebra</td>
<td>3</td>
</tr>
<tr>
<td>ENSC M02</td>
<td>Environment &amp; Human Interactions</td>
<td>4</td>
</tr>
<tr>
<td>ENSC M05</td>
<td>Environmental Sampling &amp; Instrumentation</td>
<td>1.5</td>
</tr>
<tr>
<td>EL M01/M01L</td>
<td>Introduction to Electronics/Lab</td>
<td>4</td>
</tr>
<tr>
<td>ET R104</td>
<td>Safety and Emergency Response</td>
<td>4</td>
</tr>
<tr>
<td>or (Oxnard College)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PT R65</td>
<td>Hazardous Materials (Oxnard College)</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL units required: 27 or 28

For further information, contact Professor Muthena Naseri at (805) 378-1400, ext. 1753.
Environmental Science Courses

ENSC M01 -- 3 Units
Environmental Science
Prerequisite: None
Corequisite: ENSC M01L
Class Hours: 3 lecture
Introduces the fundamental laws of physics and chemistry controlling the natural processes operating in the world. Emphasizes the interrelationships between humans, their environment and the impact of technology on the global environment. Discusses the existence, measurement and control of energy, air, water and noise pollution. (Physical Science credit). ENSC formerly Env Sc. Applies to Associate Degree. Transfer credit: CSU; UC

ENSC M01L -- 1 Unit
Environmental Science Lab
Prerequisite: None
Corequisite: ENSC M01
Class Hours: 3 lab
Clarifies environmental concepts presented in ENSC M01. Requires four field trips: utility plant, waste water treatment facility, recycling/recovery center and college nature center. Stresses scientific method, elements of statistics and sample, and the completion of a research-based oral presentation. ENSC formerly Env Sc. Applies to Associate Degree. Transfer credit: CSU; UC pending.

ENSC M02 -- 4 Units
Environment and Human Interactions
Prerequisite: None
Class Hours: 3 lecture, 1 lab
Introduces biological principles governing ecosystems, referencing major world biomes and major CA plant communities. Reviews basic concepts and toxicological terminology associated with urban environmental issues, including environmental health. Emphasizes the impact of world demography and population dynamics. Requires field trips. (Biology Science credit). ENSC formerly Env Sc. Applies to Associate Degree. Transfer credit: CSU; UC

ENSC M03 -- 3 Units
Energy Resources and Conservation
Prerequisite: None
Class Hours: 3 lecture
Surveys current energy resources, physics of energy and environmental utilization, alternate methods of energy generation and various energy conservation methods. Emphasizes practical application relevant to today's economy and technology. ENSC formerly Env Sc. Applies to the Associate Degree. Transfer credit: CSU

ENSC M04 -- 1.5 Units
Environmental Regulations
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Introduces current laws and regulations governing air and water pollution, solid waste, hazardous material, and pesticides. Reviews federal, state, and local regulation as well as appropriate regulatory agencies. May be taken four (4) times for credit. ENSC formerly Env Sc. Applies to the Associate Degree.

ENSC M05 -- 1.5 Units
Environmental Sampling and Instrumentation
Prerequisite: None
Class Hours: 72 lab total
Introduces instrumentation used to collect and monitor environmental field data, including hands-on operation, calibration, and basic maintenance of instruments. Includes sampling procedures and data collection from automatic recording devices. ENSC formerly Env Sc. Applies to the Associate Degree. Transfer credit: CSU.

ENSC M06 -- 3 Units
Water Science
Prerequisite: None
Class Hours: 4 lecture for 12 weeks
Introduces basic physical, chemical, and biological properties of water as well as wastewater treatment properties, including coagulation, sedimentation, filtration, disinfection, anaerobic digestion, and softening. Emphasizes California Code of Regulations for water standards. Prepares students for California Department of Health Services Operator Certification Examinations, grades 1 & 2. Requires field trips. ENSC formerly Env Sc. Applies to the Associate Degree. Transfer credit: CSU.

ENSC M20 -- 3 Units
Environmental Systems
Prerequisite: None
Class Hours: 2 lecture, 3 activity/lab
Introduces geographic and geologic concepts; soils (types, textures and structure), basic rock types; elements of weather and oceanic influences, including tides and currents. Provides first-hand experience in collecting, measuring, interpreting and reporting field data. Requires field trip to a selected environment (e.g., deserts of Death Valley or Baja, Mexico), plus 32 hours of pre- and post-trip lectures. ENSC formerly Env Sc. Applies to Associate Degree. Transfer credit: CSU

ENSC M22A/B -- 0.5 to 3 Units Each
Independent Studies in Environmental Science
Prerequisite: A previous course in Environmental Science
Class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of environmental science through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. ENSC formerly Env Sc. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ENSC M60A-Z -- 0.5 to 3 Units Each
Topics in Environmental Science
Prerequisites: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes. ENSC formerly Env Sc.

Developed topics include:
ENSC M60A -- 1 Unit
The Desert Biome
Prerequisite: None
Class Hours: 48 lab total
Introduces the desert biome, reviewing geographic features, adaptation of fauna and flora, and effect of human impact. Requires six-day field trip to selected deserts. ENSC formerly Env Sc. Applies to Associate Degree. Transfer credit: CSU.
ENSC M60B — 1 Unit
The Urban Environment
Prerequisite: None
Class Hours: 48 lab total
Examines the historical development, shapes, requirements, and contributions of cities to human culture. Requires field trips to three major metropolitan areas in California (Los Angeles, Santa Barbara and San Diego). ENSC formerly Env Sc. Applies to Associate Degree. Transfer credit: CSU.

ENSC M60C — 1 Unit
The Redwoods
Prerequisite: None
Class Hours: 48 lab total
Reviews world forests, especially the California Coast Redwood Forest. Requires six-day field trip to the Redwood National Park as well as pre- and post-trip preparation and evaluation. ENSC formerly Env Sc. Applies to Associate Degree. Transfer credit: CSU.

ENSC M60D — 1 Unit
Microscale Chemistry
Prerequisite: None
Class Hours: 48 lab total
Provides hands-on experience with general and organic chemistry on microscale level. Lab activities explore physical properties (density, refractive index), solvent extraction, acid base titrations, and gas chromatography. May require field trips. ENSC formerly Env Sc. Applies to Associate Degree. Transfer credit: CSU.

ENSC M80 — 1 to 4 Units
Internship in Environmental Science
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. ENSC formerly Env Sc. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

Essential Skills

Essential Skills courses 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 Development Laboratory course(s), students will become prepared to undertake successfully further education and training at a college level.

Dean
Ed Tenner, Phone (805) 378-1447

Faculty

Full-Time
Patricia Dozen

Part-Time
Jeanette Hosek, Sandra Schulman

Counselors
Lettrisha Mai, Mary Martin, Danita R. Redd

Essential Skills Courses

Enrollment in an Essential Skills course is possible at almost any time during the semester. Course credit is recorded when the required hours have been completed on an individualized schedule. These courses are only graded credit/no-credit. The units do not apply toward a degree. For more information, contact the Learning Assistance Services (LAS, L-222). Call (805) 378-1556.

ES M01 -- 1 Unit
Library Success Skills
Prerequisite: None
Class Hours: 16 lecture total
Introduces basic library research skills, including use of the card catalog, various indexes, and basic reference sources as well as compilation of a bibliography. Offered credit/no-credit only. Does not apply toward a degree.

ES M02 -- 0.5 to 1.5 Units
Skills Development Laboratory - Reading
Prerequisite: None
Class Hours: 24-72 laboratory total
Provides intensive individualized work developing reading skills. Includes teaching and tutorial assistance as well as use of multimedia materials and computer-aided instruction. Offered credit/no-credit only. May be taken four (4) times for credit. Does not apply toward a degree.

ES M03 -- 0.5 to 1.5 Units
Skills Development Laboratory - Writing
Prerequisite: None
Class Hours: 24-72 laboratory total
Provides intensive individualized work developing writing skills. Includes teaching and tutorial assistance as well as use of multimedia materials and computer-aided instruction. Offered credit/no-credit only. May be taken four (4) times for credit. Does not apply toward a degree.

ES M04 -- 0.5 to 1.5 Units
Skills Development Laboratory - Mathematics
Prerequisite: None
Class Hours: 24-72 laboratory total
Provides intensive individualized work developing basic math and computing skills. Includes teaching and tutorial assistance as well as use of multimedia materials and computer-aided instruction. Offered credit/no-credit only. May be taken four (4) times for credit. Does not apply toward a degree.

ES M05 -- 0.5 to 1.5 Units
Skills Development Laboratory - Study Skills
Prerequisite: None
Class Hours: 24-72 laboratory total
Provides intensive individualized work developing effective study skills. Reviews effective test-taking as well as test anxiety and stress reduction techniques. Includes teaching and tutorial assistance as well as use of multimedia materials and computer-aided instruction. Offered credit/no-credit only. May be taken four (4) times for credit. Does not apply toward a degree.

ES M06 -- 0.5 to 1.5 Units
American English Pronunciation
Prerequisite: None
Class Hours: 24-72 laboratory total
Provides intensive individualized work to improve American English pronunciation. Reviews simplified augmented alphabet (44 sounds), spelling mastery, and vocabulary building. Students practice communication skills with peers and instructors. Offered credit/no-credit only. May be taken four (4) times for credit. Does not apply toward a degree.
ES M08 -- 1 Unit
Vocabulary Development
Prerequisite: None
Class Hours: 1 lecture
Expands college-level vocabulary for better understanding of textbooks and other readings. Offered credit/no-credit only. May be taken two (2) times for credit. Does not apply toward a degree.

ES M10 -- 1 Unit
Pre Math 9
Prerequisite: None
Class Hours: 2 lecture for 8 weeks
Reviews arithmetic with positive whole numbers, including addition, subtraction, multiplication and division as well as place value, rounding and estimation, factoring and order of operations. Emphasizes solving real-world problems. Allows use of hand-held calculator. Prepares students for eventual success in MATH M09. Offered credit/no-credit only. May be taken two (2) times for credit. Does not apply toward a degree.

ES M11 -- 1 Unit
Pre Math 1
Prerequisite: None
Class Hours: 2 lecture for 8 weeks
Reviews arithmetic and pre-algebra topics needed for success in algebra, emphasizing arithmetic with fractions, decimals and signed numbers, percent, proportion and measurement. May include a brief introduction to algebra. Offered credit/no-credit only. May be taken two (2) times for credit. Does not apply toward a degree. NOTE: This course is not a prerequisite for Math 1.

ES M23 -- 1 Unit
College Reading Skills
Prerequisite: None
Class Hours: 1 lecture
Offers intensive individualized instruction to develop and improve individual reading skills. Works one-on-one and in small group with instructor. Offered credit/no-credit only. Does not apply toward a degree.

ES M24 -- 1 Unit
Speed Reading Skills
Prerequisite: None
Class Hours: 1 lecture, 1 lab
Introduces speed reading techniques, using speed reading software in the CLAS Computer Lab. Includes individualized needs assessment. Offered credit/no-credit only. Does not apply toward a degree.

ES M33 -- 1 Unit
Grammar/Punctuation Review
Prerequisite: None
Class Hours: 1 lecture, 1 lab
Reviews rules and conventions of English grammar and punctuation, emphasizing the ability to write clear, concise, correct sentences and to join them coherently in paragraphs. Offered credit/no-credit only. Does not apply toward a degree.

ES M55 -- 1 Unit
College Study Skills
Prerequisite: None
Class Hours: 1 lecture
Offers instruction to develop and improve individual study skills, such as time management, note-taking and test-taking strategies, and one-on-one small group instruction. Offered credit/no-credit only. Does not apply toward a degree.

ES M89A -- 1 Unit
Fundamentals of Tutor Training
Prerequisite: None
Class Hours: 1 lecture
Introduces methods of peer tutoring, emphasizing learning strategies, study skills, and interactive learning strategies. Offered credit/no-credit only. Does not apply toward a degree.

EXOTIC ANIMAL TRAINING AND MANAGEMENT

This program offers preparation for students interested in entering the expanding animal care industry. The increasing importance of zoos and wildlife education to the efforts of conservation as well as the use of animals in various entertainment fields present many career options to graduates of this curriculum.

Career Opportunities

Zoo Keeper, Animal Trainer, Conservation/Wildlife Educator
Humane Officer, Animal Handler, Veterinary Assistant, Kennel Worker
Animal Control Officer

Dean

Judith Gerhart, Phone (805) 378-1402

Faculty

Full-Time
James Patterson, James Peddie, Gary Wilson

Part-Time
Carole Doria, Kristin Romero, Cynthia Wilson, Brenda Woodhouse

Counselor
Chuck Brinkman

Procedures for Applying to the EATM Program

Applicants will be selected in the Spring semester for admission into the Fall classes subject to available openings. The requirements, procedures, application dates and program offerings are subject to change. Consult the EATM staff or counselor for current information. Phone: (805) 378-1441.

Qualifying Requirements

1. One of the following must be completed before applying to the program:
   a) High school graduation and GPA of 2.5 or
   b) General Education Development (GED) with a score of 45 and a minimum of 12 units of college with a 2.25 GPA or
   c) High school graduate with less than a 2.5 GPA and a minimum of 12 units of college with a GPA of 2.25.

2. The following documents must be on file at the EATM Program Office at Moorpark College by January 31:
   a) All official high school and college transcripts
   b) Completed EATM program application form
   c) Three letters of recommendation from counselors, instructors, or employers other than relatives
3. Application materials will be reviewed by the selection committee to evaluate the applicant's prior experience with animals, academic background, and level of performance in school and work. The highest ranking applicants will be invited to the EATM facility at Moorpark College for an interview. The purpose of this interview is three-fold:

a) To assess the applicant's potential for success in the EATM program and the animals industry.

b) To visit the EATM facility and tour the Moorpark College campus.

c) To attend informational sessions conducted by staff and students which address the issues of housing, finances, time commitment, transportation, safety and other relevant topics as well as to answer all questions. Through this process, the applicant will be better served in making the decision to attend this program if selected.

4. All applicants must demonstrate freedom from physical handicaps, as certified by a physician, which would affect their ability to safely and satisfactorily perform the responsibilities of all EATM students. 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.

Recommendations:
Because the Exotic Animal Training and Management Program annually receives more applicants than can be admitted into this program, it is strongly recommended that the applicant do the following to improve his/her chances for admission:

1. The applicant should have completed the general education requirements as described under Moorpark College's "Degree Requirements and Transfer Information" located in the college catalog.

2. A broad base of experience in caring for both domestic and exotic animals in a variety of job/volunteer situations will enhance an application.

Program Requirements:
The EATM program prepares the student for positions in the animal care industry that often involves working with dangerous animals. The student works with some dangerous animals at the college's facility and at other animal facilities during their course of study. Therefore, students admitted to the program are expected to strictly adhere to the rules and regulations of the program in order to ensure the safety of the students, animals, staff, and public. Furthermore, all students are expected to maintain the highest personal and ethical standards consistent with professional standards as perceived by the program staff and professional personnel at the facilities where students perform externships. Any information indicating that such standards are not maintained is subject to review by the program staff which may impose disciplinary or corrective sanctions including dismissal from the program.

For successful completion of the EATM program, a minimum grade of C is necessary in all courses required for the major. Because much of the EATM program is sequential in nature, a minimum grade of C in each required course must be obtained before continuing to the next semester. In addition, each student's performance and conduct will be reviewed by the program staff at the conclusion of each semester to determine whether the student may proceed to the next semester.

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Exotic Animal Training and Management

Degree (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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EATM M01</td>
<td>Animal Diversity</td>
<td>3.5</td>
</tr>
<tr>
<td>EATM M02</td>
<td>Animal Health and Safety</td>
<td>2</td>
</tr>
<tr>
<td>EATM M03</td>
<td>Exotic Animal Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>EATM M04</td>
<td>Animal Behavior</td>
<td>3.5</td>
</tr>
<tr>
<td>EATM M05</td>
<td>Zoo Horticulture</td>
<td>3</td>
</tr>
<tr>
<td>EATM M06</td>
<td>Animal Anatomy/Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EATM M10</td>
<td>Projects in EATM</td>
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<tr>
<td>EATM M11A</td>
<td>Exotic Animal Care and Handling</td>
<td>5</td>
</tr>
<tr>
<td>EATM M11B</td>
<td>Exotic Animal Care and Handling</td>
<td>1</td>
</tr>
<tr>
<td>EATM M11C</td>
<td>Exotic Animal Care and Handling</td>
<td>3</td>
</tr>
<tr>
<td>EATM M13A</td>
<td>Animal Facility Operations</td>
<td>3</td>
</tr>
<tr>
<td>EATM M13B</td>
<td>Animal Facility Operations</td>
<td>6</td>
</tr>
<tr>
<td>EATM M13C</td>
<td>Animal Facility Operations</td>
<td>3</td>
</tr>
<tr>
<td>EATM M13D</td>
<td>Animal Facility Operations</td>
<td>1</td>
</tr>
<tr>
<td>EATM M15</td>
<td>Education &amp; Entertainment in Animal Parks</td>
<td>5</td>
</tr>
<tr>
<td>EATM M21A</td>
<td>Exotic Animal Training</td>
<td>4</td>
</tr>
<tr>
<td>EATM M21B</td>
<td>Advanced Veterinary Procedures</td>
<td>4</td>
</tr>
<tr>
<td>EATM M21C</td>
<td>Advanced Veterinary Procedures</td>
<td>4</td>
</tr>
<tr>
<td>EATM M45A</td>
<td>Advanced Education &amp; Entertainment in Animal Parks</td>
<td>2</td>
</tr>
<tr>
<td>EATM M45B</td>
<td>Advanced Education &amp; Entertainment in Animal Parks</td>
<td>1</td>
</tr>
<tr>
<td>HED M05</td>
<td>Safety and First Aid</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EATM M15L</td>
<td>Education &amp; Entertainment Lab</td>
<td>1</td>
</tr>
<tr>
<td>EATM M21B</td>
<td>Exotic Animal Training</td>
<td>1</td>
</tr>
<tr>
<td>EATM M21L</td>
<td>Exotic Animal Training Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EATM M40</td>
<td>Field Experience in EATM</td>
<td>3</td>
</tr>
</tbody>
</table>

Animal Behavior Management Option
This option is for students interested in the management of the behavior of animals in captivity including zoo animals and animals used for entertainment or other animal training situations. Students are required to complete the core curriculum plus the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EATM M21B</td>
<td>Exotic Animal Training</td>
<td>1</td>
</tr>
<tr>
<td>EATM M21L</td>
<td>Exotic Animal Training Laboratory (2x)</td>
<td>4</td>
</tr>
<tr>
<td>EATM M40</td>
<td>Field Experience in EATM</td>
<td>2</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EATM M15L</td>
<td>Education &amp; Entertainment Lab</td>
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</tr>
<tr>
<td>EATM M21L</td>
<td>Exotic Animal Training Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EATM M40</td>
<td>Field Experience in EATM</td>
<td>2</td>
</tr>
<tr>
<td>EATM M46</td>
<td>Wildlife Education</td>
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TOTAL minimum units required in major area: 71-72

Suggested Course Sequence:

**FIRST YEAR:**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Units</th>
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<tbody>
<tr>
<td>First Semester</td>
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<tr>
<td>EATM M01</td>
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<tr>
<td>EATM M02</td>
<td>2</td>
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<td>EATM M05 or H ED M05</td>
<td>3</td>
</tr>
<tr>
<td>EATM M11A</td>
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</tr>
<tr>
<td>EATM M15</td>
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Total: 16.5

<table>
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<tr>
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Total: 1

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<thead>
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<tr>
<td>Second Semester</td>
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</tr>
<tr>
<td>EATM M03</td>
<td>2</td>
</tr>
<tr>
<td>EATM M04</td>
<td>3.5</td>
</tr>
<tr>
<td>EATM M05 or H ED M05</td>
<td>3</td>
</tr>
<tr>
<td>EATM M06</td>
<td>3</td>
</tr>
<tr>
<td>EATM M11C</td>
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<tr>
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Total: 17.5

<table>
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<tr>
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<tr>
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<tr>
<td>EATM M15A</td>
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<tr>
<td>EATM M40</td>
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Total: 4-6

**SECOND YEAR:**

General EATM Option

<table>
<thead>
<tr>
<th>Semester</th>
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<tbody>
<tr>
<td>Third Semester</td>
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</tr>
<tr>
<td>EATM M10</td>
<td>1</td>
</tr>
<tr>
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<tr>
<td>EATM M21A</td>
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<tr>
<td>EATM M23A</td>
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<tr>
<td>EATM M45A</td>
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Total: 14

<table>
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<tbody>
<tr>
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<tr>
<td>EATM M13C</td>
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Total: 1

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<tbody>
<tr>
<td>Fourth Semester</td>
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<tr>
<td>EATM M13D</td>
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<td>4</td>
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Total: 15

Animal Behavior Management Option

<table>
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<tr>
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<tbody>
<tr>
<td>Third Semester</td>
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<tr>
<td>EATM M13B</td>
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<tr>
<td>EATM M21A</td>
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<td>EATM M21L</td>
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</tr>
<tr>
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Total: 15

<table>
<thead>
<tr>
<th>Semester</th>
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<tbody>
<tr>
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<tr>
<td>EATM M13C</td>
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Total: 1

<table>
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<tr>
<th>Semester</th>
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<tbody>
<tr>
<td>Fourth Semester</td>
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<tr>
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</tr>
<tr>
<td>EATM M21B</td>
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<tr>
<td>EATM M23A</td>
<td>4</td>
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Total: 15

Exotic Animal Training and Management Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>EATM M01</td>
<td>3.5</td>
</tr>
</tbody>
</table>

Animal Diversity

Prerequisite: None

Class Hours: 3 lecture, 1.5 lab

Introduces invertebrate and vertebrate animals, both terrestrial and marine, reviewing classification, general characteristics, adaptations, animal recognition, evolutionary history, and basic concepts of ecology and conservation. Includes classroom animal demonstrations. Applies to the Associate Degree. Transfer credit: CSU

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EATM M02</td>
<td>2</td>
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</tbody>
</table>

Animal Health and Safety

Prerequisite: Enrollment in EATM major

Class Hours: 2 lecture

Introduces health and safety problems of keeping animals in captivity, emphasizing preventive medical programs as well as procedures for proper hygiene, quarantine, vaccinations, and safety. Reviews zookeeper safety with a consideration of zoonoses. Applies to Associate Degree.
EATM M03 -- 2 Units
Exotic Animal Nutrition
Prerequisite: EATM M02
Class Hours: 2 lecture
Introduces basic factors relating to the feeding and nutritional needs of exotic animals in captivity as well as in the wild. Applies to Associate Degree.

EATM M04 -- 3.5 Units
Animal Behavior
Prerequisite: None
Class Hours: 3 lecture, 1.5 lab
Introduces the study of animal behavior, emphasizing learning theory and classical and operant conditioning. Applies concepts of ethology and behavior modification to the maintenance and training of animals in captivity. Requires training a rat and conducting an observational research project on captive animals. (Same course as PSY M12). Applies to Associate Degree. Transfer credit: CSU

EATM M05 -- 3 Units
Zoo Horticulture
Prerequisite: Enrollment in EATM program
Class Hours: 2 lecture, 3 lab
Introduces the interrelationship of plants and zoo animals. Provides 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. Stresses the relationship of plants and zoo animals found in the EATM facility. Applies to Associate Degree.

EATM M06 -- 3 Units
Animal Anatomy/Physiology
Prerequisite: Enrollment in EATM major
Class Hours: 3 lecture
Introduces the science of veterinary medicine as it applies to non-domestic mammals, birds, reptiles, amphibians, fish, and invertebrates. Provides practical system-by-system approach to each group's basic structure (anatomy) and function (physiology). Applies to the Associate Degree. Transfer credit: CSU

EATM M10 -- 1 to 3 Units
Projects in EATM
Prerequisites: EATM M01 and EATM M04 or PSY M12 and EATM M11B
Corequisite: EATM M13B or EATM M13C
Class Hours: 3-9 lab
Requires participation in a variety of externships, each emphasizing a different area of the animal industry and providing professional contacts. May be taken four (4) times for credit. Applies to Associate Degree.

EATM M11A -- 5 Units
Exotic Animal Care and Handling
Prerequisite: Enrollment in EATM major
Class Hours: 1 lecture, 12 lab
Develops essential zoo keeping skills through “hands-on” experience caring for the college’s animal collection. Emphasizes maintenance of domestic and non-domestic animals in captivity. Applies to Associate Degree.

EATM M11B -- 1 Unit
Exotic Animal Care and Handling
Prerequisite: EATM M11A
Class Hours: 12 lab for 4 weeks
Provides practice of zoo keeping skills at America’s Teaching Zoo during the break between the fall and spring semesters. Applies to Associate Degree.

EATM M11C -- 5 Units
Exotic Animal Care and Handling
Prerequisite: EATM M11A
Class Hours: 1 lecture, 12 lab
Introduces strategies for catching and restraining animals as well as construction of animal enclosures. Provides application of skills while working in the college’s animal facility. Applies to Associate Degree.

EATM M13A -- 3 Units
Animal Facility Operations
Prerequisites: EATM M11C and EATM M01
Class Hours: 24 lab for 6 weeks
Provides experience in the operation of an animal facility, reviewing effective workplace teams, training workers, animal behavior management, and environmental enrichment programs. Emphasizes how to properly use common hand tools, tie common knots, maneuver a trailer, and perform routine vehicle maintenance. Applies to Associate Degree.

EATM M13B -- 6 Units
Animal Facility Operations
Prerequisite: EATM M13A
Class Hours: 5 lecture, 12 lab
Explores issues involving the operation of an animal facility, emphasizing how to evaluate workers, prepare a business plan and budget, and understand the system of state and federal regulations governing the care of captive wildlife. Reviews career options and job application strategies in the animal care field. Applies to Associate Degree.

EATM M13C -- 1 Unit
Animal Facility Operations
Prerequisite: EATM M13B
Class Hours: 12 lab for 4 weeks
Provides practice of zoo keeping and leadership skills at America’s Teaching Zoo during the break between fall and spring semesters. Applies to Associate Degree.

EATM M13D -- 6 Units
Animal Facility Operations
Prerequisite: EATM M13B
Class Hours: 2 lecture, 12 lab
Introduces advanced issues of managing an animal facility, including how to manage time, reduce job stress, maintain an animal record system, deal with visitors, transport animals, and prepare a grant proposal. Also reviews the animal rights movement, ethics, animal collection management, and zoo conservation efforts. Applies to Associate Degree.

EATM M15 -- 3 Units
Education and Entertainment in Animal Parks
Prerequisite: Enrollment in EATM major
Class Hours: 2 lecture, 3 lab
Introduces techniques of interpretation utilized in zoos and live animal presentations, including public speaking, program design, animal handling, public relations methods and problems of animal parks. Requires live animal presentations. Applies to Associate Degree.

EATM M15L -- 1 Unit
Education and Entertainment Laboratory
Prerequisite: EATM M15
Class Hours: 3 lab
Requires performance of educational and entertaining presentations using live animals, demonstrating effective interpretation and presentation techniques. Applies to Associate Degree.
EATM M21A -- 1 Unit
Exotic Animal Training
Prerequisites: EATM M13A and EATM M04 or PSY M12
Class Hours: 1 lecture
Explores advanced techniques for training a variety of animals. Addresses general concepts of training, including shaping, controlling aggressive behavior, and modifying undesirable behavior. Applies to Associate Degree.

EATM M21B -- 1 Unit
Exotic Animal Training
Prerequisite: EATM M21A
Class Hours: 1 lecture
Explores specialized, advanced techniques for training exotic animals in varying situations including film, husbandry and protected contact training. Applies to Associate Degree.

EATM M21L -- 2 Units
Exotic Animal Training Laboratory
Prerequisites: EATM M13A and EATM M04 or PSY M12
Corequisite: EATM M21A or M21B
Class Hours: 6 lab
Requires using appropriate techniques to train three animals (bird, herbivore, and either primate or carnivore), demonstrating the importance of proper timing and accurate reading of animals' body language. May be taken two (2) times for credit. Applies to Associate Degree.

EATM M22A/B -- 1 to 3 Units Each
Independent Studies in Exotic Animal Training and Management
Prerequisite: A previous EATM course
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of exotic animal training and management through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU

EATM M23A -- 4 Units
Elementary Veterinary Procedures
Prerequisite: EATM M03 and EATM M06
Class Hours: 3 lecture, 3 lab
Introduces science of veterinary medicine as it applies to non-domestic animals, birds, and reptiles, including a practical approach to the recognition, diagnosis, treatment and nursing care related to various disease processes on an organism by organism system basis. Applies to the Associate Degree. Transfer credit: CSU

EATM M23B -- 4 Units
Elementary Veterinary Procedures
Prerequisite: EATM M23A
Class Hours: 3 lecture, 3 lab
Expands basic veterinary information and skills by introducing concepts of laboratory diagnostic aids, nursing care for non-domestic animals, disease processes and mechanisms, reproduction and newborn care, and the process of death. Requires practical application of skills throughout the course. Applies to the Associate Degree. Transfer credit: CSU

EATM M26L -- 1 Unit
Nonhuman Primate Behavior Laboratory
Prerequisite: EATM M04 or PSY M12
Class Hours: 6 lab for 8 weeks
Reviews primate behavior and applies that information to successfully handling and training nonhuman primates. Requires hands-on experience with primates under direct instructor supervision. Applies to Associate Degree.

EATM M40 -- 1 to 3 Units
Field Experience in EATM
Prerequisite: EATM M11B
Class Hours: 48-144 lab total
Provides hands-on experience working with a variety of animal species under the supervision of a professional zookeeper. Experience provided at the Los Angeles Zoo and the Santa Barbara Zoo. May be taken four (4) times for credit. Applies to Associate Degree.

EATM M45A -- 2 Units
Advanced Education and Entertainment in Animal Parks
Prerequisite: EATM M15
Class Hours: 6 lab
Requires advanced live animal presentations before all types of audiences. Includes demonstrating effective speaking techniques, announcing animal shows, writing original show scripts, selecting music, and handling a range of live show problems. May be taken two (2) times for credit. Applies to Associate Degree.

EATM M45B -- 2 Units
Advanced Education and Entertainment in Animal Parks
Prerequisite: EATM M45A
Class Hours: 6 lab
Involves live animal presentations before all types of audiences. Requires active participation in the development, organization, and presentation of a large-scale animal show with repeated performances, along with small stage presentations. May be taken two (2) times for credit. Applies to Associate Degree.

EATM M46 -- 3 Units
Wildlife Education
Prerequisite: EATM M15L
Corequisite: EATM M45B
Class Hours: 2 lecture, 3 lab
Requires design, development and implementation of wildlife education programs for audiences of various ages, cultural orientations, and developmental levels. Involves gathering information on environmental and conservation issues and incorporating this material into educational presentations. May be taken two (2) times for credit. Applies to Associate Degree.

EATM M60 A-Z -- 1 - 3 Units
Topics in Exotic Animal Training and Management
Prerequisites: To be determined
Class Hours: To be determined
Each course allows in-depth exploration of topics in this field. When offered, each course is announced in the semester's Schedule of Classes. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

EATM M80 -- 1 to 4 Units
Internship in Exotic Animal Training and Management
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; credit limitations.
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 primary area of employment, other careers may be found in interpreting, translating, research, diplomacy, libraries, and the publishing business.

Career Opportunities

Most careers require bachelor’s or graduate degree. Translator, Diplomatic Office, Tutor, Editor, Foreign-Exchange Trader, Foreign Clerk, Foreign Service Officer

Dean

Rene Rodriguez, Phone (805) 378-1404

Faculty

Part-Time
Sam Dagher, Sara Wheeler

Counselors
Mary Martin, Ofelia Romero-Motlagh

French Courses

FREN M01 -- 4 Units
Elementary French I
Prerequisite: None
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 028114 for 60 contact hours.
Introduces the French language, culture, history and society, emphasizing speaking, understanding, reading and writing skills. Requires individualized work in the language lab each week. FREN formerly FR. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: FREN 2; FREN SEQ A (FREN M01-M02)

FREN M02 -- 4 Units
Elementary French II
Prerequisite: FREN M01 or 2 years of high school French
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 028114 for 60 contact hours.
Expands basic principles of grammar and pronunciation, developing the ability to understand and to express French in oral and written form. Requires individualized work in the language lab each week. FREN formerly FR. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: FREN 4; FREN SEQ A (FREN M01-M02)

FREN M03 -- 4 Units
Intermediate French I
Prerequisite: FREN M02 or 3 years of high school French
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 028114 for 60 contact hours.
Expands study of basic grammar and composition, emphasizing ease of reading and mastery of speaking and writing. Requires individualized work in the language lab each week. FREN formerly FR. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: FREN 8; FREN SEQ B (FREN M03-M04)

FREN M04 -- 4 Units
Intermediate French II
Prerequisite: FREN M03 or 4 years of high school French with an equivalent fluency
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 028114 for 60 contact hours.
Emphasizes grammar review, vocabulary development, oral and written expression, and study of representative literary works. Requires individualized work in language lab each week. FREN formerly FR. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: FREN 10; FREN SEQ B (FREN M03-M04)

FREN M22A/B -- 1 to 3 Units Each
Independent Studies in French
Prerequisite: A previous course in French
Class Hours: 1 to 3 as arranged.
Allows an independent project (approved by instructor and dean) to expand knowledge of French through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. FREN formerly FR. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations

FREN M31A -- 3 Units
Beginning Conversational French
Prerequisite: None
Class Hours: 3 lecture
Provides basic understanding and use of French in practical situations, emphasizing elementary grammar and principles of usage for non-native speakers. May be taken two (2) times for credit. FREN formerly FR. Applies to Associate Degree.

FREN M31B -- 3 Units
Intermediate Conversational French
Prerequisite: FREN M31A
Class Hours: 3 lecture
Expands introduction and use of French for non-native speakers, emphasizing intermediate grammar and principles of usage. May be taken two (2) times for credit. FREN formerly FR. Applies to Associate Degree.

FREN M60A-Z -- 1 to 3 Units Each
Topics in French
Prerequisites: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester’s Schedule of Classes.

Developed topics include:

FREN M60A -- 3 Units
Advanced Studies in French
Prerequisite: FREN M4
Class Hours: 3 lecture
Expands knowledge, potential and advanced use of French through individual and group writing as well as through oral discussion based on a variety of written works. May be taken two (2) times for credit. FREN formerly FR. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.
FREN M80 -- 1 to 4 Units
Internship in French
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. FREN formerly FR. Applies to Associate Degree.
Transfer credit: CSU, credit limitations.

GEOGRAPHIC INFORMATION SYSTEMS

Geographic Information Systems is a new technology of computer mapping that records, stores and analyzes information about the features that make up the earth's surface.

Dean
Al Nordquist, Phone (805) 78-1445

Faculty

Part-Time
Andrea Ehrcott

Counselor
Ofelia Romero-Motlagh

Geographic Information Systems Courses

GIS M01 -- 3 Units
Introduction to Mapping and GIS
Prerequisite: None
Class Hours: 3 lecture
Introduces basic cartographic principles, including map types, scales, projections, coordinate systems as well as Geographic Information Systems (GIS) technology and software. Provides hands-on experience with the retrieval and application of data in business or academic areas. Covers GIS concepts of raster/vector conversions, thematic mapping, geocoding and data acquisition as well as various applications (resource management, business marketing, site selection and crime analysis). Applies to Associate Degree. Transfer credit: CSU.

GEOGRAPHY

Geography is the study of place and space; it is the description of land, sea, and air, and the distribution of plant and animal life including humans and their activities. The most rapidly increasing area of employment for people trained in geography is planning, at all levels — local, regional, and national. Education is a second major career area for geographers, while a background in geography is an asset in travel, recreation, industry, and international trade and commerce.

Career Opportunities

Most careers require bachelors or graduate degree.
Economic Geographer, Aerial Photo Interpreter, Research Marketing Analyst, Resource Planning Analyst, Environmental Impact Analyst, Environmental Research Assistant, Cartographer, Demographer, Regional Analyst, Political Geographer, City or County Planner

Dean
Al Nordquist, Phone (805) 78-1445

Faculty

Part-Time
Monern Abdel-Gawad, June Anderson, Gilbert Dewart, Andrea Ehrcott

Counselor
Ofelia Romero-Motlagh

Geography Courses

GEOG M01 -- 3 Units
Our Physical Environment
Prerequisite: None
Class Hours: 3 lecture
Introduces physical elements of weather, climate, landforms, vegetation, soils, hydrology, and the effects of the earth's interior structure. Emphasizes the interrelationships between people and their physical environment. Requires field trips. Applies to the Associate Degree. Transfer credit: CSU; UC: CAN: GEOG 2; GEOG 6 (GEOG M01+M01L)

GEOG M01L -- 1 Unit
Physical Environment Lab
Prerequisite: Completion of or concurrent enrollment in GEOG M01
Class Hours: 3 lab
Introduces earth-sun relations as well as map and air photo reading and interpretation. Provides hands-on practice in landscape description, measurement and analysis. Requires written reports. Requires local field trips. Applies to the Associate Degree. Transfer credit: CSU; UC: CAN: GEOG 6 (GEOG M01 + M01L)

GEOG M02 -- 3 Units
Cultural Environment
Prerequisite: None
Class Hours: 3 lecture
Introduces basics of geography, including its objectives, main divisions, and basic principles. Emphasizes social and cultural relationships with the environment. Involves analysis of current world problems as well as urban and rural fieldwork. Applies to the Associate Degree. Transfer credit: CSU; UC: CAN: GEOG 4

GEOG M03 -- 3 Units
Geography of World Affairs
Prerequisite: None
Class Hours: 3 lecture
Surveys world geography, emphasizing the regions, people, and economic activities characteristic of the major political areas of the world. Explores how world affairs are affected by the way humans occupy the earth. Applies to the Associate Degree. Transfer credit: CSU; UC
**GEOG M04 -- 3 Units**
**Resource Utilization**
Prerequisite: None
Class Hours: 3 lecture
Introduces physical and cultural factors influencing the location of economic activities; analysis of the principal economic production systems involved with agriculture, foodstuffs, resources and industrialization; and contemporary problems of international economic power struggles. Applies to the Associate Degree. Transfer credit: CSU; UC

**GEOG M05 -- 3 Units**
**Introduction to Meteorology**
Prerequisite: None
Class Hours: 3 lecture
Introduces meteorological phenomena, including atmospheric circulation and behavior, clouds, precipitation, wind systems, storms, and air pollution. Focuses on interrelationships between land, ocean, and atmosphere as well as weather instruments and their roles in reporting general and aviation weather conditions. Applies to the Associate Degree. Transfer credit: CSU; UC

**GEOG M05L -- 1 Unit**
**Introduction to Meteorology Laboratory**
Prerequisite: Completion of or concurrent enrollment in GEOG M05
Class Hours: 3 lab
Emphasizes hands-on experience with meteorological observation, cloud identification, instrumentation, interpretation of weather charts and data, weather system identification and analysis. Requires field trips. Applies to the Associate Degree. Transfer credit: CSU; UC

**GEOG M06 -- 2 Units**
**Map Use and Interpretation**
Prerequisite: None
Class Hours: 2 lecture
Introduces map reading, analysis, and interpretation, including history and practical use of maps, map projections, and aerial photography. Applies to the Associate Degree. Transfer credit: CSU; UC

**GEOG M07 -- 3 Units**
**The Human Impact**
Prerequisite: None
Class Hours: 3 lecture
Introduces historical review of human modifications of the natural environment, including vegetation, animal life, soils, landforms, water and atmosphere. Applies to the Associate Degree. Transfer credit: CSU; UC

**GEOG M10 -- 3 Units**
**Geography of California**
Prerequisite: None
Class Hours: 3 lecture
Reviews human involvement with various California landscapes, including the state's historical settlement, resource utilization and physical environment. Requires field trips on local land use patterns. Applies to the Associate Degree. Transfer credit: CSU; UC

**GEOG M22A/B -- 0.5 to 3 Units Each**
**Independent Studies in Geography**
Prerequisite: A previous course in geography
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of geography through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

**GEOG M60A-M -- 1 to 3 Units Each**
**Topics in Physical Geography**
Prerequisite: Prior course in geography
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

**GEOG M60A -- 3 Units**
**Volcanism and Human Activity**
Prerequisite: None
Class Hours: 3 lecture
Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

**GEOG M60B -- 3 Units**
**Glacial Landscapes**
Prerequisite: None
Class Hours: 3 lecture
Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

**GEOG M60C -- 3 Units**
**Regional Geomorphology**
Prerequisite: None
Class Hours: 3 lecture
Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

**GEOG M60N-Z -- 1 to 3 Units Each**
**Topics in Cultural Geography**
Prerequisite: Prior course in Geography
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

**GEOG M60N -- 3 Units**
**Landscape Analysis**
Prerequisite: None
Class Hours: 3 lecture
Introduces procedures of field examination and data collection in areas such as settlement patterns, population changes and land use. Reviews the observation, mapping and analysis of landscapes affected by human activity. Requires field trips. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

**GEOG M80 -- 1 to 4 Units**
**Internship in Geography**
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; credit limitations.
GEOLOGY

This program presents a study of the earth, its physical, chemical and biological forces at work.

Career Opportunities

Most careers require bachelors or graduate degree.
Field Geologist, Mining Geologist, Engineering Geologist, Researcher, Consultant, Librarian, Park Naturalist, Geological Technician, Technical Writer/Editor, Laboratory Research Worker, Aerogeologist, Map Editor.

Dean

Floyd Martin, Phone (805) 378-1459

Faculty

Part-Time
Monem Abdel-Gawad, June Anderson, Terry Davis, Gilbert Dewart, Roberta Harma, Gerald Simila

Counselors
Letisha Mai, Mary Martin, Danita R. Redd

Geology Degree

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 that may be helpful towards the seeking of immediate employment.

Preparation for the Major:
- Mathematics — two years high school algebra plus trigonometry or MATH M03 and M07 or equivalent.
- Chemistry — one year high school chemistry or CHEM M12 or equivalent.
- Physics — one year high school physics or PHYS M10A or equivalent if student plans to take PHYS M20A/M20AL.

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

Required Courses: Units

<table>
<thead>
<tr>
<th>COURSE</th>
<th>NAME</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM M01A</td>
<td>General Chemistry I</td>
<td>6</td>
</tr>
<tr>
<td>CHEM M01B</td>
<td>General Chemistry II</td>
<td>6</td>
</tr>
<tr>
<td>GEOL M02</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL M02L</td>
<td>Physical Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>GEOL M03</td>
<td>Earth History</td>
<td>3</td>
</tr>
<tr>
<td>GEOL M04</td>
<td>Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>MATH M15</td>
<td>Introductory Statistics</td>
<td>5</td>
</tr>
<tr>
<td>or MATH M25C</td>
<td>Calculus with Analytic Geometry III</td>
<td>5</td>
</tr>
<tr>
<td>or MATH M25A</td>
<td>Calculus with Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>or MATH M25B</td>
<td>Calculus with Analytic Geometry II</td>
<td>5</td>
</tr>
<tr>
<td>or PHYS M10A/M10AL</td>
<td>General Physics I/Lab</td>
<td>5</td>
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</table>

TOTAL minimum units required in major area | 48 |

Suggested Course Sequence:

First Semester

<table>
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<tr>
<th>COURSE</th>
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<tr>
<td>CHEM M01A</td>
<td>General Chemistry I</td>
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<tr>
<td>GEOL M02</td>
<td>Physical Geology</td>
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<tr>
<td>GEOL M02L</td>
<td>Physical Geology Lab</td>
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Second Semester

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<th>COURSE</th>
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<tr>
<td>MATH M15 or MATH M25C</td>
<td>Calculus with Analytic Geometry III</td>
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Third Semester

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<th>NAME</th>
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<tbody>
<tr>
<td>GEOL M03</td>
<td>Earth History</td>
</tr>
<tr>
<td>MATH M25A</td>
<td>Calculus with Analytic Geometry I</td>
</tr>
<tr>
<td>PHYS M10A/M10AL or PHYS M20A/M20AL</td>
<td>General Physics I/Lab</td>
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Fourth Semester

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<th>COURSE</th>
<th>NAME</th>
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<tr>
<td>CHEM M04</td>
<td>General Chemistry II</td>
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<tr>
<td>MATH M25B</td>
<td>Calculus with Analytic Geometry II</td>
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<tr>
<td>PHYS M10B/M10BL or PHYS M20B/M20BL</td>
<td>General Physics II/Lab</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
</tr>
</tbody>
</table>

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

Geology Courses

GEOL M01 -- 3 Units
Introductory Geology
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces the composition, structure, and modification of earth and its physical systems. Includes identifying common rocks, minerals, physical processes and geologic structures in the lab and in the field. Applies to the Associate Degree. Transfer credit: CSU; UC

GEOL M02 -- 3 Units
Physical Geology
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces materials and structure of the earth, origin and development of land forms as well as the principles and processes of geology including erosion and sedimentation, volcanic, glacial and earthquake activity. Focuses on global tectonics. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: GEOL 2 (GEOL M02+M02L); CAN GEOL 6 (GEOL M02 only)

GEOL M02L -- 1 Unit
Physical Geology Lab
Prerequisite: None
Corequisite: GEOL M02
Class Hours: 3 lab
Provides hands-on experience in direct observation and scientific analysis of geologic data. Emphasizes mineral and rock formation and identification; topographic and geologic map interpretation; and laboratory and field observation and identification. Requires field trips. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: GEOL 2 (GEOL M02+M02L)
GEOL M03 -- 3 Units
Earth History
Prerequisite: None
Class Hours: 3 lecture
Introduces geologic history of the earth and evolution of life revealed by fossil records. Reviews elementary problems in paleontology, stratigraphy, and structure and geologic mapping. Applies to the Associate Degree. Transfer credit: CSU; UC.

GEOL M04 -- 4 Units
Mineralogy
Prerequisites: GEOL M02, GEOL M02L, and CHEM M12
Class Hours: 2 lecture, 6 lab
Introduces principles of rock-forming mineralogy, emphasizing crystallography, mineral chemistry, physical properties, occurrence, origin, and associations of common minerals. May require field trips. Applies to the Associate Degree. Transfer credit: CSU; UC.

GEOL M05 -- 3 Units
The World Ocean
Prerequisite: None
Class Hours: 3 lecture
Introduces the geological, physical and chemical characteristics of the ocean. Reviews formation of the ocean basins, ocean currents, waves, tides, beaches, chemistry and marine pollution. Applies to the Associate Degree. Transfer credit: CSU; UC.

GEOL M21 -- 3 Units
Geology of California
Prerequisite: None
Class Hours: 3 lecture
Focuses on geologic provinces of California including topography, structure, geologic history, lithology and mineral resources. Requires field trips. Applies to the Associate Degree. Transfer credit: CSU; UC.

GEOL M22A/B -- 0.5 to 3 Units Each
Independent Studies in Geology
Prerequisite: A previous course in geology
Class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of geology through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC. Credit limitations.

GEOL M41 -- 3 Units
Geology of the National Parks and Monuments
Prerequisite: None
Class Hours: 3 lecture
Introduces physical and historical geology of the national parks and monuments in western America. Requires field trips. Applies to the Associate Degree. Transfer credit: CSU.

GEOL M51 -- 1-3 Units
Field Geology
Prerequisite: A previous course in Geology
Class Hours: 3-9 lab
Reviews field studies and geologic processes exemplified in specific localities. May be taken two (2) times for credit. Applies to the Associate Degree. Transfer credit: CSU.

GEOL M61 -- 3 Units
Geologic Hazards
Prerequisite: None
Class Hours: 3 lecture
Introduces geologic hazards to environment, including landslides, earthquakes and floods. Emphasizes local conditions. May require field trips. Applies to the Associate Degree. Transfer credit: CSU; UC.

GEOL M80 -- 1 to 4 Units
Internship in Geology
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; credit limitations.

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

Most careers require bachelors or graduate degree.
Translator, Diplomatic Office, Tutor, Editor, Foreign-Exchange Trader, Foreign Clerk, Foreign Service Officer

Dean
Rene Rodriguez, Phone (805) 378-1404

Faculty
Part-Time
Jane Chapman, Andrea Fuchs
Counselor
Ofelia Romero-Motlagh

German Courses

GERM M01 -- 4 Units
Elementary German I
Prerequisite: None
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours. Introduces German language, culture, history and people, emphasizing speaking, understanding, reading and writing skills. Requires individualized work in the lab each week. GERM formerly GER. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: GERW 2; GERM SQ A (GERM M01+M02)
GERM M02 -- 4 Units
Elementary German II
Prerequisite: GERM M01 or 2 years of high school German with equivalent fluency
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours. Further explores German language and culture, emphasizing people and history as well as speaking and writing proficiency. Requires individualized work in the language lab each week. GERM formerly GER. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: GERM 4; GERM SEQ A (GERM M01+M02)

GERM M03 -- 4 Units
Intermediate German I
Prerequisite: GERM M02 or 3 years of high school German with equivalent fluency
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours. Offers intensive review of basic grammar, including extension and refinement of fundamentals and increased proficiency in reading, writing, and speaking skills. Focuses on culture through study of selected literature and contemporary society. Requires individualized work in the language lab each week. GERM formerly GER. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: GERM 8; GERM SEQ B (GERM M03+M04)

GERM M04 -- 4 Units
Intermediate German II
Prerequisite: GERM M03 or 4 years of high school German
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours. Expands intensive review of basic grammar, including extension and refinement of fundamentals and increased proficiency in reading, writing, and speaking skills. Focuses on culture through study of selected literature and contemporary society. Requires individualized work in the language lab each week. GERM formerly GER. Applies to the Associate Degree. Transfer credit: CSU; UC. CAN: GERM 10

GERM M22A/B -- 1 to 3 Units Each
Independent Studies in German
Prerequisite: A previous course in German
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of German through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. GERM formerly GER. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: GERM 10

GERM M31A -- 3 Units
Beginning Conversational German
Prerequisite: None
Class Hours: 3 lecture
Provides basic understanding and use of German in practical situations, emphasizing elementary grammar and principles of usage for non-native speakers. May be taken two (2) times for credit. GERM formerly GER. Applies to the Associate Degree. Applies to Associate Degree.

GERM M31B -- 3 Units
Intermediate Conversational German
Prerequisite: GERM M31A
Class Hours: 3 lecture
Expands introduction and use of German for non-native speakers, emphasizing intermediate grammar and principles of usage. May be taken two (2) times for credit. GERM formerly GER. Applies to the Associate Degree. Applies to Associate Degree.

GERM M80 -- 1 to 4 Units
Internship in German
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. GERM formerly GER. Applies to Associate Degree. Transfer credit: CSU; UC. Credit limitations.

GRAPHICS
The Graphics 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, commercial art studios, desktop publishing, production art, graphics, photography, electronic pre-press or offset printing and bindery operations. 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 as well as provide new opportunities for careers in graphics and print technology.

Career Opportunities
Advertising Artist, Illustrator, Designer, Graphic Artist, Mural Artist, Type Designer, Graphic Arts Technician, Showcard Artist, Desktop Publisher, Production Artist, Process Camera Operator, Sign Painter, Silk Screen Artist, Sketch Artist, Title Designer, Stencil Maker, Commercial Artist, Paste-Up Camera Artist, Electronic Prepress, Stripper/Platemaker, Press Operator, Computer Technician, Sales Representative

Dean
Sid Adler, Phone (805) 378-1443

Faculty
Full-Time
John Grzywacz-Gray, Sexton Stewart

Part-Time
Sol Dember, Nancy Haberman, Susan Gardner, Joseph Martin, Kerry Mehle, Julie Morton, Ruben Reyes, Douglas Sutherland, Leland Swindel, Sueann Valentine-Wheeler

Counselors
Don Henderson, Edna Ingram
## Graphics Degree (Occupational)

**Associate in Science Degree**

This program is designed to prepare students for careers in the creative and print technology aspects of Graphics. This degree offers specialization in three areas: Graphic Design, Print Technology and Desktop Publishing.

**Required Core Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR M10</td>
<td>Introduction to Graphics</td>
<td>3</td>
</tr>
<tr>
<td>GR M20</td>
<td>Macintosh and IBM Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>GR M30</td>
<td>Production Art Techniques</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL Core Units</strong></td>
<td><strong>8</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Recommended Courses:** ART M01C, M04B, M12B, M13A/B; GR M41.

Select one of the following options to complete your Graphics AS Degree:

### Graphic Design Option

**Core Plus the Following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART M04A</td>
<td>Color and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART M12A</td>
<td>Drawing and Composition</td>
<td>3</td>
</tr>
<tr>
<td>PHOT M01A</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td>GR M26</td>
<td>Computer-Assisted Illustration (Macintosh)</td>
<td>3</td>
</tr>
<tr>
<td>GR M27</td>
<td>Electronic and Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>GR M31</td>
<td>Graphic Design I</td>
<td>2</td>
</tr>
<tr>
<td>GR M32</td>
<td>Graphic Design II</td>
<td>2</td>
</tr>
<tr>
<td>GR M30</td>
<td>Advertising Design</td>
<td>2</td>
</tr>
<tr>
<td>GR M34</td>
<td>Lettering and Typography</td>
<td>2</td>
</tr>
<tr>
<td>GR M40</td>
<td>Beginning Illustration</td>
<td>3</td>
</tr>
<tr>
<td>GR M70</td>
<td>Reproduction Process</td>
<td>2</td>
</tr>
<tr>
<td>GR M50</td>
<td>Portfolio</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL units required in Graphic Design</strong></td>
<td><strong>38</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Print Technology Option

**Core Plus the Following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR M24A</td>
<td>Desktop Publishing I</td>
<td>3</td>
</tr>
<tr>
<td>GR M24B</td>
<td>Desktop Publishing II</td>
<td>3</td>
</tr>
<tr>
<td>GR M25</td>
<td>Computer Publication Design</td>
<td>3</td>
</tr>
<tr>
<td>GR M27</td>
<td>Electronic and Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>GR M71</td>
<td>Offset Printing I</td>
<td>3</td>
</tr>
<tr>
<td>GR M72</td>
<td>Offset Printing II</td>
<td>3</td>
</tr>
<tr>
<td>GR M75</td>
<td>Process Camera</td>
<td>3</td>
</tr>
<tr>
<td>GR M85</td>
<td>Estimating and Scheduling</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL units required in Print Technology</strong></td>
<td><strong>32</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Desktop Publishing Option

**Core Plus the Following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART M4A</td>
<td>Color and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART M12A</td>
<td>Drawing and Composition</td>
<td>3</td>
</tr>
<tr>
<td>CIS M06D</td>
<td>Webpage Design with HTML</td>
<td>1</td>
</tr>
<tr>
<td>GR M24A</td>
<td>Desktop Publishing I</td>
<td>3</td>
</tr>
<tr>
<td>GR M24B</td>
<td>Desktop Publishing II</td>
<td>3</td>
</tr>
<tr>
<td>GR M25</td>
<td>Computer Publication Design</td>
<td>3</td>
</tr>
<tr>
<td>GR M26</td>
<td>Computer-Assisted Illustration (Macintosh)</td>
<td>3</td>
</tr>
<tr>
<td>GR M27</td>
<td>Electronic and Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>GR M31</td>
<td>Graphic Design I</td>
<td>2</td>
</tr>
<tr>
<td>GR M34</td>
<td>Lettering and Typography</td>
<td>2</td>
</tr>
<tr>
<td>GR M70</td>
<td>Reproduction Process</td>
<td>2</td>
</tr>
<tr>
<td>GR M75</td>
<td>Process Camera</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL units required in Desktop Publishing</strong></td>
<td><strong>39</strong></td>
<td></td>
</tr>
</tbody>
</table>

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

## Computerized Composition (Occupational)

**Associate in Science Degree**

This program is designed to prepare students for careers in the expanding computer graphics and composition industry. The curriculum provides emphasis on business, operational and technical skills for those students desiring to enter into sales, sales support or servicing the computer graphics industry.

**Required Courses for All Options:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS M15</td>
<td>Intro to the PC and DOS</td>
<td>1</td>
</tr>
<tr>
<td>CIS M11</td>
<td>Intro to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS M11L</td>
<td>CIS Introduction Lab</td>
<td>1</td>
</tr>
<tr>
<td>GR M10</td>
<td>Intro to Graphics</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL Required Courses</strong></td>
<td><strong>8</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Required Additional Courses:

Select one of the following options:

#### Sales

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS M30</td>
<td>Intro to Business and Economics</td>
<td>3</td>
</tr>
<tr>
<td>BUS M35</td>
<td>Sales Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BUS M37</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS M39</td>
<td>Business Communication Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GR M30</td>
<td>Production Art Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GR M75</td>
<td>Process Camera I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Application Specialist</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS M39</td>
<td>Business Communication Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GR M21</td>
<td>Intro to Windows &amp; Desktop Publishing</td>
<td>2</td>
</tr>
<tr>
<td>GR M24A</td>
<td>Desktop Publishing I (IBM Compatible)</td>
<td>3</td>
</tr>
<tr>
<td>GR M24B</td>
<td>Desktop Publishing II</td>
<td>3</td>
</tr>
<tr>
<td>GR M75</td>
<td>Process Camera I</td>
<td>3</td>
</tr>
<tr>
<td>GR M71</td>
<td>Offset Printing I</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL units required in major area</strong></td>
<td><strong>25-32</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Field Service Engineer**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS M10/M10L</td>
<td>Intro to Computer Science/Pascal/Lab</td>
<td>4</td>
</tr>
<tr>
<td>CS M17A/M17L</td>
<td>Computer Programming with C/Lab</td>
<td>4</td>
</tr>
<tr>
<td>EL M10/M10L</td>
<td>Passive Circuits/Lab</td>
<td>4</td>
</tr>
<tr>
<td>EL M16/M16L</td>
<td>Analog Circuits/Lab</td>
<td>4</td>
</tr>
<tr>
<td>EL M17/M17L</td>
<td>Digital Circuits/Lab</td>
<td>4</td>
</tr>
<tr>
<td>EL M21</td>
<td>Microprocessors and Microcomputers</td>
<td>2</td>
</tr>
<tr>
<td>EL M24</td>
<td>Diagnostics, Trouble Shooting &amp; Repair</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL units required in major area</strong></td>
<td><strong>25-32</strong></td>
<td></td>
</tr>
</tbody>
</table>

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

Certificate of Achievement

GR M10 ........ Introduction to Graphics .................. 3
GR M20 ........ Macintosh and IBM Operating System .... 2
GR M24A ...... Desktop Publishing I ..................... 2
GR M24B ...... Desktop Publishing II .................... 2
GR M27 ...... Electronic and Digital Photography ....... 3
GR M30 ...... Production Art Techniques .................. 3
GR M71 ...... Offset Printing I ........................... 3
GR M72 ...... Offset Printing II ........................... 3
GR M75 ...... Process Camera I ............................ 3
GR M85 ...... Estimating and Scheduling ................... 3

TOTAL units required .................................. 34

Recommended Courses:
ART M04A, ART M12A, GR M34, GR M70, PHOT M01A

Printing Technology Certificate

Certificate of Achievement

This program prepares students for various occupations in the offset lithography industry. Emphasis is upon basic and advanced skills in prepress and printing technologies.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR M10</td>
<td>Intro to Graphics</td>
<td>3</td>
</tr>
<tr>
<td>GR M20</td>
<td>Macintosh and IBM Operating Systems</td>
<td>2</td>
</tr>
<tr>
<td>GR M24A</td>
<td>Introduction to Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>GR M24B</td>
<td>Desktop Publishing I</td>
<td>2</td>
</tr>
<tr>
<td>GR M27</td>
<td>Electronic and digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>GR M30</td>
<td>Production Art Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GR M71</td>
<td>Offset Printing I</td>
<td>3</td>
</tr>
<tr>
<td>GR M72</td>
<td>Offset Printing II</td>
<td>3</td>
</tr>
<tr>
<td>GR M75</td>
<td>Process Camera I</td>
<td>3</td>
</tr>
<tr>
<td>GR M85</td>
<td>Estimating and Scheduling</td>
<td>3</td>
</tr>
</tbody>
</table>

Total units required .................................. 34

Graphics Courses

GR 10 -- 3 Units
Introduction to Graphics
Prerequisite: None
Class Hours: 3 lecture
Introduces advertising, printing, and the history of graphics. Provides practical applications in design, desktop publishing, camera, and various printing processes. Reviews employment trends and opportunities. Formerly GC 10. Applies to Associate Degree. Transfer credit: CSU

GR M20 -- 2 Units
Macintosh and IBM Operating Systems
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Introduces basic theory and entry-level skills on multiple computer publishing platforms. Emphasizes both operating systems, typography, True Type/Postscript Levels, and printing to Postscript. Provides practical applications in creating text and bitmapped graphics using apples of each operating system. May be taken two (2) times for credit. Formerly GRD 29. Applies to Associate Degree. Transfer credit: CSU

GR M21 -- 2 Units
Introduction to Windows & Desktop Publishing: PageMaker
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Introduces use of Windows and Adobe PageMaker on PC platform as well as basic principles and applications of desktop publishing. Includes graphics measuring system, typography, proofing and editing techniques. Formerly GC 28. Applies to Associate Degree. Transfer credit: CSU

GR M22A/B -- 1 to 3 Units Each
Independent Studies in Graphics
Prerequisite: A previous course in Graphics
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of graphics through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Formerly GRD 22A/B. Applies to Associate Degree. Transfer credit: CSU

GR M23 -- 3 Units
Introduction to Computer Graphics (Macintosh)
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Surveys computer graphics applications on the Macintosh computer and introduces basic web design issues. Provides hands-on experience with Adobe Photoshop, Adobe Illustrator and QuarkXpress. Formerly GRD 30. Applies to Associate Degree.

GR M24A -- 3 Units
Desktop Publishing I (IBM Compatible): PageMaker
Prerequisite: GR M21
Class Hours: 2 lecture, 3 lab
Introduces fundamentals and basic operating procedures of Adobe PageMaker in the Windows environment, emphasizing practical application and principles of layout and typography. Requires creation of camera-ready documents for the reproduction process. Formerly GC 23A. Applies to Associate Degree.

GR M24B -- 3 Units
Desktop Publishing II: PageMaker
Prerequisite: GR M24A
Class Hours: 2 lecture, 3 lab
Introduces advanced techniques in the production of commercial publications such as business packages, business forms, newsletters and product sheets. Emphasizes business variations and professional problem-solving skills. Includes basics of scanning and color proofing techniques. Formerly GC 23B. Applies to Associate Degree.

GR M25 -- 3 Units
Computer Publications Design (Macintosh): Quark Express
Prerequisite: GR M23
Class Hours: 2 lecture, 3 lab
Introduces principles of publication design using Quark Xpress. Explores informational graphics and design alternatives, emphasizing effective and efficient communication of information. Covers software, type, graphic elements, screens, photographs, illustrations, templates, style sheets, color and process color separations. Requires production of newsletter and other publications. Formerly GC 18. Applies to Associate Degree.

GR M26 -- 3 Units
Computer-Assisted Illustration (Macintosh): Illustrator
Prerequisite: GR M23
Class Hours: 2 lecture, 3 lab
Introduces principles of design and computer illustration using Macintosh Computer and appropriate software. Emphasizes organization of visual material, including design concepts, typography, space, shape, line, and texture. Stresses creativity. Formerly GRD 31. Applies to Associate Degree.
GR M27 -- 3 Units
Electronic and Digital Photography: Photo Shop
Prerequisite: A course in the discipline
Class Hours: 2 lecture, 3 lab
Introduces electronic photography and image processing on the
Macintosh computer, using slide, halide films, electronic still cameras
and various scanning techniques to produce photographic output. May
be taken two (2) times for credit. Formerly GRD 60E. (Same course as
PHOT M30). Applies to Associate Degree.

GR M30 -- 3 Units
Production Art Techniques
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces mechanical and electronic applications of production art
techniques for graphic reproduction. Emphasizes principles of design,
including the creation of rough, comprehensive, camera ready art and
the use of overlay materials. Explores electronic methods of production
art as well as digital and film color proofing techniques. Formerly GC
21. Applies to Associate Degree. Transfer credit: CSU

GR M31 -- 2 Units
Graphic Design I
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Introduces conceptual, production, and visual design methods, empha-
sizing commercial art. Provides hands-on production experience. Formerly
GRD 20. Applies to Associate Degree. Transfer credit: CSU

GR M32 -- 3 Units
Graphic Design II
Prerequisite: GR M31 or concurrent enrollment
Class Hours: 2 lecture, 3 lab
Introduces basics of advertising and graphic design, reviewing trad-
emark, ad, package, cover and poster design. Requires production projects.
Formerly GRD 20A. Applies to Associate Degree. Transfer credit: CSU

GR M33 -- 2 Units
Advertising Design
Prerequisite: GR M32
Class Hours: 1 lecture, 3 lab
Introduces advertising layouts and their translation into camera-ready
artwork, including rendering, type specifications and figure indication.
Includes developing and executing comprehensive presentations, flat ads,
packaging, posters and point-of-sale displays. May be taken two (2)
times for credit. Formerly GRD 20B. Applies to Associate Degree. Trans-
fer credit: CSU

GR M34 -- 2 Units
Lettering and Typography
Prerequisite: GR M31 or concurrent enrollment
Class Hours: 1 lecture, 3 lab
Introduces basic lettering with pen and brush. Includes construction of
letters in Gothic, Roman, Italian, Script, Text and Modern type, Empha-
sizing character form and distribution essential for page layouts. Formerly
GRD 21. Applies to Associate Degree. Transfer credit: CSU

GR M40 -- 3 Units
Beginning Illustration
Prerequisite: ART M12A or concurrent enrollment
Class Hours: 2 lecture, 3 lab
Introduces pen and ink, watercolor, collage and colored pencil techniques
as principle means of self-expression. Analyzes topical themes and in-
dividual story lines as potential subject matter for weekly drawings. Formerly
GRD 40A. Applies to Associate Degree. Transfer credit: CSU

GR M41 -- 3 Units
Intermediate Illustration
Prerequisite: GR M40
Class Hours: 2 lecture, 3 lab
Introduces advanced studies in pen and ink, watercolor washes and mixed
media, exploring individual style appropriate to magazine, newspaper
and book illustration. Formerly GRD 40B. Applies to Associate De-
gree. Transfer credit: CSU

GR M42 -- 3 Units
Advanced Illustration
Prerequisite: GR M41
Class Hours: 2 lecture, 3 lab
Emphasizes development of individual style through advanced illustration
techniques. Requires Individual projects. May be taken two (2)
times for credit. Formerly GRD 40C. Applies to Associate Degree. Trans-
fer credit: CSU

GR M50 -- 3 Units
Airbrush Techniques for Advertising & Industry
Prerequisite: GR M10 or GR M40 or suitable portfolio
Class Hours: 2 lecture, 3 lab
Introduces airbrush techniques for advertising, commercial art and in-
dustrial use. Emphasizes preparing illustrations and retouching black
and white photographs as well as appropriate equipment maintenance.
Provides critique of all production assignments. Students must have ac-
cess to an airbrush for the duration of the class. Formerly GRD 41A.
Applies to Associate Degree.

GR M51 -- 3 Units
Airbrush Techniques for Advertising & Industry (Advanced)
Prerequisite: GR M50
Class Hours: 2 lecture, 3 lab
Introduces advanced techniques and treatments for producing full color
art illustrations and color photo retouching, using transparent dyes, trans-
parent colors and opaque designer colors. Emphasizes practical tips for
producing acceptable commercial and industrial illustrations. Provides
classroom demonstrations and project critiques. Students must have ac-
cess to an airbrush for the duration of the class. Formerly GRD 41B.
Applies to Associate Degree.

GR M52 -- 3 Units
Airbrush Painting
Prerequisite: GR M50
Class Hours: 2 lecture, 3 lab
Provides specialized training in a variety of common airbrush techniques
in both black and white and color. Emphasizes commercial, industrial
and high tech applications and presentations. Formerly GRD 42. Ap-
lies to Associate Degree.

GR M60A-Z -- 1 to 3 Units Each
Topics in Graphics
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings.
When offered, each course is announced in the semester’s Schedule of
Classes. Formerly GRD 56A-Z.

Developed topics include:

GR M60A -- 1 Unit
Airbrush Practice
Prerequisite: A previous airbrush course
Class Hours: 3 lab
May be taken four (4) times for credit.
GR M60B -- 1 to 3 Units
Computer Graphics Practice
Prerequisites: GRD M30 and GRD M31 or GRD M32
Class Hours: 3-9 lab as arranged
May be taken four (4) times for credit.

GR M60G -- 3 Units
Creating Background Illustration Scenes for Animation
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces special techniques and use of color to produce final background scenes, using various subjects, effects, and media. Emphasizes special effects for television, movies, and commercials. May be taken three (3) times for credit.

GR M70 -- 2 Units
Reproduction Process
Prerequisites: GRD M30 and GRD M32
Class Hours: 1 lecture, 3 lab
Introduces advanced techniques in the operation of single and 2-color lithographic printing presses, emphasizing multi-color stripping, plate-making and press operation. Uses PMS Color guides and color measurements with the densitometer. Includes pre-press color proofing techniques. Formerly GC 40. Applies to Associate Degree. Transfer credit: CSU

GR M71 -- 3 Units
Offset Printing I
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Provides theory and practice in small lithographic press operation and stripping/plate-making procedures. Emphasizes operational functions of the printing units, inking units, dampening and delivery units as well as support preparation for stripping, impositioning and assembly, and selection, care and making of presensitive lithographic plates. Formerly GC 41A. Applies to Associate Degree. Transfer credit: CSU

GR M72 -- 3 Units
Offset Printing II
Prerequisite: GR M71
Class Hours: 2 lecture, 3 lab
Emphasizes skills needed for entry-level positions within the printing industry, including stripping, plate-making, and press operation and adjustment. Formerly GC 41B. Applies to Associate Degree. Transfer credit: CSU

GR M73 -- 2 Units
Screen Printing I
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Introduces screen-printing and its artistic and commercial application. Includes preparation of various screen printing stencil methods, preparation and care of screens, and use of transparent and opaque inks. Formerly GC 45A. Applies to Associate Degree. Transfer credit: CSU

GR M74 -- 2 Units
Screen Printing II
Prerequisite: GR M75
Class Hours: 1 lecture, 3 lab
Introduces advanced techniques for utilizing photo screen-printing singly or in combination with other stencil methods. Includes instruction and practice of the process camera and its application to screen-printing; basic line photography and contact printing; and single and multicolor printing and post-inking techniques. Explores special printing on various surfaces. Formerly GC 45B. Applies to Associate Degree. Transfer credit: CSU

GR M75 -- 3 Units
Process Camera I
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces characteristics of photographic materials and use of a galley camera for the production of line negatives. Includes instruction and practice in darkroom techniques, use of filter, contact printing, color proofing, post-inking techniques and the diffusion transfer process. Formerly GC 31A. Applies to Associate Degree. Transfer credit: CSU

GR M76 -- 3 Units
Process Camera II
Prerequisite: GR M75
Class Hours: 2 lecture, 3 lab
Introduces advanced theory and practice on the camera. Emphasizes half-tone photography, including rescreening, dot manipulation techniques, and halftones for the PMT process. Formerly GC 31B. Applies to Associate Degree. Transfer credit: CSU

GR M80 -- 1-4 Units Each
Internship in Graphics
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitation

GR M85 -- 3 Units
Estimating and Scheduling
Prerequisites: GR M21 and GR M75 and GR M71
Class Hours: 3 lecture
Introduces how to establish estimates and printing costs through price catalogs and budgeted hourly rates. Uses traditional and computer estimating software. Formerly GC 50. Applies to Associate Degree. Transfer credit: CSU

GR M90 -- 2 Units
Portfolio
Prerequisite: 6 units in Graphics program, including GR M75
Class Hours: 1 lecture, 3 lab
Develops professional presentation of artwork that demonstrates graphic design potential as well as variety of experience. Includes self-promotional concept, resume, and cover letter needed to secure employment. Formerly GRD 50. Applies to Associate Degree. Transfer credit: CSU
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

Most careers require bachelor's or graduate degree.
Athletic Trainer, Hospital Administrator, Health Education Teacher, Community Health Educator, Public Health Administrator, Health Officer, Fitness Instructor, School Health Coordinator, Health Research/Statistician

Dean

AI Nordquist, Phone (805) 378-1445

Faculty

Full-Time
James Bittner, Ronald Halleran, Delbert Parker, Nancy Stewart

Part-Time
Leslie Daily, Katherine Holland-Dichter, De Dow, Paul Keysaw, Vance Manakas, Paulita Matsui, Eldin Ongsgard, Sandra Patterson, George Ragsdale

Counselor
Donna Prokske-Allyn

Health Education Courses

HED M01 -- 2 Units
Health and Society
Prerequisite: None
Class Hours: 2 lecture
Introduces major health concepts that contribute to healthy living, including personal fitness, mental health, personal relationships, harmful substances, environmental health, communicable diseases, chronic and degenerative disease, reproduction and contraception, and consumer health. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU; UC.

HED M02 -- 2 Units
Women's Health
Prerequisite: None
Class Hours: 2 lecture
Focuses on nature and function of women's health in our society. Introduces major female health problems, emphasizing both the individual's and the community's role in understanding medical advances and implementing their effects. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU; UC. (HED M01, M02 and M07 combined, maximum credit, one course.)

HED M04 -- 0.5 Unit
Fitness Assessment
Prerequisite: None
Class Hours: 8 lecture total
Introduces established procedures that assess physical fitness, emphasizing an evaluation of body composition (percent body fat), strength, flexibility, cardiovascular endurance, vital capacity and nutrition. May be taken four (4) times for credit. Does NOT fulfill PE/Health requirement for Associate Degree. HED formerly HE. Applies to the Associate Degree.

HED M05 -- 3 Units
Safety and First Aid
Prerequisite: None
Class Hours: 3 lecture
Introduces how to offer assistance in emergency first aid situations. Successful course completion qualifies student for the American Red Cross Standard First Aid certificate and the Adult Cardiopulmonary Resuscitation card (Adult CPR card). HED formerly HE. Applies to Associate Degree. Transfer credit: CSU; UC.

HED M06 -- 3 Units
Prevention and Treatment of Athletic Injuries
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces basic concepts, skills and practices for the athletic trainer, including medical aspects of athletic training, athletic therapy, modalities, strength, conditioning, rehabilitation and diagnostic techniques. Provides hands-on experience responding to the athletically injured. Does NOT fulfill PE/Health requirement for Associate Degree. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU; UC.

HED M07 -- 3 Units
Personal Health
Prerequisite: None
Class Hours: 3 lecture
Introduces components and skills of health and wellness, reviewing positive behavioral changes and their effect on life. Emphasizes self-responsibility based on self-analysis and assessment. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU; UC. (HED M01, M02, and M07 combined, maximum credit, one course.)

HED M10A -- 0.5 Unit
Alcohol Awareness Seminar
Prerequisite: None
Class Hours: 8 lecture total
Examines the physical, psychological and social effects of alcohol use and abuse including history, case studies, and treatment modes. Emphasizes local information and resources. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU.

HED M10B -- 0.5 Unit
AIDS Seminar
Prerequisite: None
Class Hours: 8 lecture total
Approved for Continuing Education units by the California Board of Registered Nursing, provider number 02811 for 7.5 contact hours. Introduces full range of information on AIDS, including prevention, testing, counseling, support groups, and medical care. Uses speakers and films to enhance discussion. Reviews local services. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU.

HED M10C -- 0.5 Unit
Women's Health Issues
Prerequisite: None
Class Hours: 8 lecture total
Emphasizes importance of women's participation in own health care, since present decisions affect future health and wellness. Reviews specific health issues for discussion and application. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU.
HED M10D -- 0.5 Unit
**Weight Management**
Prerequisite: None
Class Hours: 8 lecture total
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 7.5 contact hours. Examines causes and effects of being overweight, including physiological, social, and cultural issues. Emphasizes nutrition, exercise and lifestyle changes as means to weight management. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU

HED M10E -- 0.5 Unit
**Athletic Injuries Seminar**
Prerequisite: None
Class Hours: 8 lecture total
Examines medical aspects of athletic injury management, including prevention, first-aid, treatment, evaluation and reconditioning. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU

HED M10F -- 0.5 Unit
**Stress Management**
Prerequisite: None
Class Hours: 8 lecture total
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 7.5 contact hours. Examines physical, emotional, cognitive, and behavioral aspects of stress, including sources, symptoms, physiology of the stress response, burnout, and effective coping strategies such as induction of the relaxation response. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU

HED M10G -- 0.5 Unit
**Cardiopulmonary Resuscitation**
Prerequisite: None
Class Hours: 8 lecture total
Teaches proficiency in blocked airway management and basic cardiopulmonary resuscitation techniques in adult, child and infant situations. Procedures applicable to individuals with cardiovascular disease but also to those suffering from sudden death due to drowning, electrocution, sensitivity reaction, asphyxia, drug overdose, heart attack and anesthesia-induced hypoxia. Reviews early warning signs, risk factors and prevention of heart disease. May be taken four (4) times for credit. (Only 0.5 unit total may be applied to health requirement). HED formerly HE. Applies to Associate Degree. Transfer credit: CSU

HED M10H -- 0.5 Unit
**Domestic Violence / Issues and Information**
Prerequisite: None
Class Hours: 8 lecture total
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 7.5 contact hours. Introduces definition of domestic violence and abuse, including review of behavioral characteristics of domestic violence, interplay of power and control in a relationship, cycle of violence, and social and legal resources available. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU

HED M10J -- 0.5 Unit
**Date Rape / Self Defense**
Prerequisite: None
Class Hours: 8 lecture total
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 7.5 contact hours. Emphasizes recognition of the sexual, physical, and psychological abuse possible in dating relationships. Reviews elements of a healthy relationship, appropriate communication strategies, risks and vulnerabilities in dating relationships, and self-defense tactics. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU

HED M10K -- 0.5 Unit
**Smoking and Your Health**
Prerequisite: None
Class Hours: 8 lecture total
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 7.5 contact hours. Examines the primary and secondary effects of tobacco use (smoking and chewing) and reviews ways to stop its use. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU

HED M10M -- 0.5 Unit
**Healthful Eating**
Prerequisite: None
Class Hours: 8 lecture total
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 7.5 contact hours. Examines basic elements of nutrition and offers techniques and strategies for healthy eating. Includes cooking demonstrations. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU

HED M10N -- 0.5 Unit
**Men's Health**
Prerequisite: None
Class Hours: 8 lecture total
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 7.5 contact hours. Explores connections between the way men live their lives (exercise, nutrition, stress) and the quality of their health. Emphasizes need for men to participate in own health care, since present decisions affect future health and wellness. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU

HED M10P -- 0.5 Unit
**Fitness for Life**
Prerequisite: None
Class Hours: 8 lecture total
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 7.5 contact hours. Introduces key concepts in physical fitness, developing practical tools to assess personal levels of fitness and to create successful exercise programs in injury-free environments. Reviews consumer tips for health and fitness industry. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU

HED M10Q -- 0.5 Unit
**Health and Sexuality**
Prerequisite: None
Class Hours: 8 lecture total
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 7.5 contact hours. Introduces health and human sexuality, including review of basic sexual anatomy, physiology of sexual response, sexually transmitted diseases, common impediments to healthy sexual functioning, sexual enhancement, and communication skills for achieving greater intimacy. HED formerly HE. Applies to Associate Degree. Transfer credit: CSU
HEALTH SCIENCES

A Health Science career represents excellent employment opportunities in the ever-expanding fields of health services and research.

Career Opportunities

Dentist, Health Information Technology, Health Care Administration, Medical Doctor, Health Science Technologies, Occupational Therapy, Physical Therapy, Registered Nurse, Radiologic Technologist, Pharmacist, Veterinarian, Environmental, Occupational, and Public Health

Dean

Victoria Boriotu, Phone (805) 378-1405

Faculty

Full-Time

Guadalupe Aldana, Patricia Burkard, Denise Byrne, Beatrice Epping, Clint Harper, Carol Higashida, Kimberly Hoffmans, Linda Loisset, Jo Ann Moore, Brenda Shubert

Part-Time

Linda Allen, Janice Garcia, William Jones, Sandra Joseph

James Maxey- D'Angelo, Gary Metelak, Tamara Moro, Jody Nevandro, Dalila Sankarian, Julie Ann Walker

Health Sciences Institute Counselors Pre-professional

Edna Ingram, Letisha Mai, Mary Martin, Danita R. Redd

Nursing and Radiography

Frank Blanchino, Gail Goodman

Clinical Joint Appointments

Meade Butler (Los Robles Regional Medical Center)

Karla Carsey-Rounds (Kaiser Permanente, Woodland Hills)

Karen Ruballo (Kaiser Permanente, Panorama City)

Catherine O'Brien (Simi Valley Hospital)

J. Michael Richardson (Holy Cross Medical Center)

Health Sciences Degree

The Moorpark College Health Sciences Institute (HSI) offers associate degree options for a variety of careers in health sciences:

Career transfer associate degrees

Graduates are eligible for licensure and employment at the entry level of the profession. This degree also provides for transfer to a bachelor degree professional education program. Career transfer associate degrees are offered in nursing and radiologic technology.

Pre-professional transfer associate degrees

Graduates are prepared for transfer for a bachelor degree preparatory to the professional education program. The Institute offers Pre-professional transfer associate degrees in: Pre-dentistry, Pre-medicine, Pre-nursing, Pre-occupational Therapy, Pre-pharmacy, Pre-physical Therapy, Pre- radiologic Technology and Pre-veterinary Medicine.

Within the Health Science Institute, course work can also be completed for transfer programs in chiropractic medicine, physician assistant, dental hygiene, health care administration, nutrition and others. Prospective students are strongly urged to consult the HSI counselors and the catalogs of the professional and undergraduate degree programs for transfer requirements to develop an Education plan prior to enrolling for courses. Counseling appointments and Orientation Seminars can be scheduled by calling (805) 378-1428.

Transfer Information

California State University, Northridge offers a Bachelor of Science in Health Science with five options, all of which require PSY M01A; SOC M01. Additional requirements:

1. Health Education: BIOL M01; BIOL M16 or ENSC M02; CHEM M12; H ED M01; MATH M07.

2. Environmental and Occupational Health: BIOL M02A; CHEM M01A, M01B or M12, M13 and M08, M09; MATH M07; MCR M01; PHYS M10A/M10AL, M10B/M10BL.

3. Health Administration: BIOL M01; BUS M02A, M02B, M02C; CHEM M12; PHYS M01.

4. Physical Therapy: ANAT M01; BIOL M01; CHEM M01A, M01B or M12, M13; MATH M07; PHYS M01; PHYS M10A/M10AL, M10B/M10BL.

5. Nursing: ANAT M01; Chemistry - 1 course; MCR M01; PHYS M01; MATH M07, M15.

6. Radiologic Technology: ANAT M01; BIOL M02A; CHEM M12; MATH M07; PHYS M10A, M10AL, M10B, M10BL; PHYS M10A, M10AL, M10B.

Nursing Science

Students wishing to transfer for a Bachelor of Science in Nursing (BSN) have two options:

a. Complete the Moorpark College Associate Degree in Nursing and apply to transfer 56-70 units to a RN to BSN program. These programs are designed for the Associate Degree Nursing (A.D.N.) graduate with Registered Nurse (RN) licensure. In the California State University system, the following courses may be additional requirements: separate Anatomy and Physiology courses; 1 course in U.S. History and Political Science; additional units in Humanities; 1 course in Chemistry with lab, 1 organic chemistry course.
California colleges and universities offering the RN to BSN:
- California State University Dominguez Hills, Fresno, Hayward, Long Beach, Northridge, San Bernardino; Mount St. Mary's College; University of Phoenix.

b. Satisfy the transferable lower-division science and general education requirements and apply to a BSN program. The accepting institution determines transferable courses. Generally acceptable courses are: ANAT M01; ANTH M02; BIOI M02A/M02B; CHEM M01A/M01B; M08; M09; ENGL M01A; M01B; NS M01; PHYS M01A/M01B; M08; M09; ANTH M02A/M02B; M08; M09; ENGL M01A; M01B; NS M01; M08; M09; PHYS M01A/M01B; M08; M09.

California colleges and universities offering a BSN:
- Azusa Pacific University; Biola University; California State University, Bakersfield, Chico, Fresno, Fullerton, Hayward, Humboldt, Long Beach, Los Angeles, Sacramento, San Bernardino, San Diego, San Francisco, San Jose, Sonoma, Stanislaus; Mount St. Mary's College; Pacific Union College; University of Southern California.

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

a. Complete the Moorpark College Associate Degree in Radiologic Technology and apply for transfer to an accepting institution. California State University, Northridge has articulated specific courses with Moorpark College granting transferable units in science, general education and radiologic technology.

b. Satisfy the transferable lower-division science and general education requirements and then apply to a BSRT program. Major requirements for upper-division standing at California State University, Northridge: ANAT M01; BIOI M02A; CHEM M12; MATH M07; PHYS M01A/M01B; M08; M09.

Pre-Professional Programs: Dental, Medical, Occupational Therapy, Pharmacy, Physical Therapy, and Veterinary
Moorpark College offers courses that will generally meet the basic education requirements for several professional schools. These schools generally require a Bachelor's Degree for admission. Students are advised to determine and satisfy specific requirements for the professional school to which they wish to apply by consulting a counselor and the school catalog.

The general lower-division course requirements for these schools commonly include: BIOI M02A, M02B, CHEM M01A, M01B, plus one year of organic chemistry; MATH M07, (MATH M25A/B recommended); PHYS M01A/M01B, M08; M09; M10A/M10B, M08; M09. For veterinary school the requirements are: BIOI M02A, CHEM M01A, M01B, ENGL M01A, M01B; MATH M15, PHYS M01A/M01B, M08; M09; ZOO M01; (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 occupational schools and programs in physical therapy are: California State University at Long Beach, Northridge, and Sacramento offer a Bachelor's Degree in Physical Therapy, California State University at Fresno offers a combined 3+3 Bachelor / Masters Degree. The remaining offer an entry level Masters Degree: UC San Francisco jointly with San Francisco State; Loma Linda; California Osteopathic Medicine; Mount St. Mary's; Samuel Merritt; University of the Pacific.

The California veterinary school is: University of California, Davis.

Health Science Institute Paths
The Health Science Institute offers four paths to prepare for the major. Each path has a core of required courses.

Pre-Professional Transfer Associate Degrees
These two paths are for the student who plans to meet the requirements for transfer for a bachelor degree preparatory to professional education.

Path #1 includes: Pre-Dentistry, Pre-Medicine, Pre-Pharmacy, Pre-Veterinary Medicine.

Path #2 includes: Pre-Nursing, Pre-Occupational Therapy, Pre-Physical Therapy, Pre-Radiologic Technology

Career Transfer Associate Degrees
This path is for the student to obtain the Associate Degree in Nursing or Radiography in preparation for transfer for the Bachelor's degree.

Path #3 includes: Associate Degree Nursing Science - Transfer, Associate Degree Radiologic Technology - Transfer

Non-Transfer Career Degree
This path is for the student to complete the minimal requirement for the Associate Degree with no plans to transfer.

Path #4 includes: Associate Degree Health Information Technology, Associate Degree Nursing, Associate Degree Radiologic Technology

Important Notes for HSI Students:
- The total required units in each major is found by adding the units of the Path Core Courses to the additional units required in the particular major.
- Courses in the major may be used to fulfill many of the general education requirements. Please see a HSI counselor for advice on course selection and additional information.
- Course work, in addition to that shown in the associate degree programs, may be needed, based on the intended four-year transfer institution and the professional school's specific requirements.
- Additional upper division course work will be needed after transfer.
- THE A.A. OR A.S. DEGREE REQUIRES GENERAL EDUCATION UNITS IN ADDITION TO THE MAJOR UNITS.

HSI Associate Degree Paths 1-4

HSI Path #1 Core Courses
Majors within this path:
- Pre-Dentistry, Pre-Medicine, Pre-Pharmacy, Pre-Veterinary Medicine.

Other related career paths:
- Osteopathic Medicine, Podiatric Medicine, Chiropractic Medicine, and Optometry.

Required Courses:
- HS M20 Introduction to Health Sciences ................. 2
- CHEM M01A General Chemistry I .................. 6
- CHEM M01B General Chemistry II .................. 6
- BIOI M02A General Biology I .................. 4
- BIOI M02B General Biology II .................. 4
- ENGL M01A English Composition ................ 3
- ENGL M01C Critical Thinking and Composition .......... 3

TOTAL ......................................................... 28

Recommended additional core courses: CHEM M07A, CHEM M07B

Required: Completion of transfer General Education courses.
Make a counseling appointment by calling (805) 378-1428.
Pre-Dentistry AA Option
Add the following courses:
MATH M07 College Algebra and Trigonometry .......................... 5
MATH M15 Introductory Statistics ........................................... 5
MATH M16A Applied Calculus I .............................................. 3
PHYS M10A General Physics I ............................................... 4
PHYS M10AL General Physics I Laboratory .............................. 1
PHYS M10B General Physics II .............................................. 4
PHYS M10BL General Physics II Laboratory ............................ 1
PSY M01 Introduction to Psychology ...................................... 3
TOTAL ................................................................................. 26

Recommended Courses:
Life Drawing, Sculpture, MATH M16B, HS M19A or HS M19B, see Path #1 recommendations.

Pre-Medical/Pre-Pharmacy AA Option
Add the following courses:
MATH M07 College Algebra and Trigonometry .......................... 5
MATH M15 Introductory Statistics ........................................... 5
MATH M16A Applied Calculus I .............................................. 3
PHYS M10A General Physics I ............................................... 4
PHYS M10AL General Physics I Laboratory .............................. 1
PHYS M10B General Physics II .............................................. 4
PHYS M10BL General Physics II Laboratory ............................ 1
ENGL M01B Literature: Critical Thinking/Composition ............ 3
TOTAL ................................................................................. 26

Recommended Courses:
MATH M16B, PSY M01A, PSY M01B, ANPH M01 (or ANAT M01 and PSYO M01), MICR M01, HS M19A or HS M19B, See Path #1 recommendations.

Pre-Medical/Pre-Pharmacy AS Option
Add the following courses:
MATH M25A Calculus with Analytic Geometry I ......................... 5
MATH M25B Calculus with Analytic Geometry II ....................... 5
MATH M25C Calculus with Analytic Geometry III ...................... 5
PHYS M20A General Physics I ............................................... 4
PHYS M20AL General Physics I Laboratory ............................ 1
PHYS M20B General Physics II .............................................. 4
PHYS M20BL General Physics II Laboratory ........................... 1
ENGL M01B Literature: Critical Thinking/Composition ............ 3
TOTAL ................................................................................. 28

Pre-Medical AS degree recommended courses:
PSY M01A, ANPH M01 (or ANAT M01 and PSYO M01), MICR M01, PHYS M20C, PHYS M20CL, HS M19A or HS M19B

Pre-Pharmacy AS degree recommended courses:
PSY M01B, ECON M01, SPCH M01 or SPCH M02 (for USC), PHYS M20C, PHYS M20CL, HS M19A or HS M19B, see Path #1 recommendations.

Pre-Veterinary Medicine AA Option
Add the following courses:
MATH M07 College Algebra and Trigonometry .......................... 5
MATH M16A Applied Calculus I .............................................. 3
PHYS M10A General Physics I ............................................... 4
PHYS M10AL General Physics I Laboratory ............................ 1
PHYS M10B General Physics II .............................................. 4
PHYS M10BL General Physics II Laboratory ........................... 1
TOTAL ................................................................................. 18

Recommended courses:
MATH M16B, HS M19A or HS M19B, see Path #1 recommendations.

HSI Path #2 Core Courses

<table>
<thead>
<tr>
<th>Majors within this path:</th>
<th>Pre-Nursing Transfer, Pre-Occupational Therapy, Pre-Physical Therapy, Pre-Radiologic Technology Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other related career paths:</td>
<td>Public Health, Dental Hygienist, Health Care Manager, Medical Records Technologist, Nutritionist, Physician Assistant, Human Performance/Sports Medicine</td>
</tr>
</tbody>
</table>

**Required Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS M20</td>
<td>Introduction to Health Science</td>
</tr>
<tr>
<td>BIOL M02A</td>
<td>General Biology I</td>
</tr>
<tr>
<td>MATH M07</td>
<td>College Algebra and Trigonometry</td>
</tr>
<tr>
<td>ANAT M01</td>
<td>General Human Anatomy</td>
</tr>
<tr>
<td>PHYS M01</td>
<td>Human Physiology</td>
</tr>
<tr>
<td>ENGL M01A</td>
<td>English Composition</td>
</tr>
<tr>
<td>PSY M01A</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>SOC M01*</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>ANTH M02</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>SPCH M01</td>
<td>Introduction to Speech</td>
</tr>
<tr>
<td><strong>SPCH M02</strong></td>
<td>Elements of Public Speaking</td>
</tr>
</tbody>
</table>

TOTAL: 32

*Must be SOC M01 for the Pre-physical Therapy Option.
**Must be SPCH M02 for transfer to USC.

**Required:** Completion of transfer General Education courses.

Make a counseling appointment by calling (805) 378-1428.

Pre-Nursing Transfer AS Option
Add the following courses:
MICR M01 Principles of Microbiology .................................. 5
CHEM M12* Introductory Chemistry I ................................ 5
CHEM M13* Introductory Chemistry II ................................ 5
TOTAL ................................................................................. 15

* (For UCLA CHEM M01A & M01B may be substituted)

**Recommended Courses:** HS M15, HS M19A or M19B, MATH M15, NTS M01, NTS M05, Computer Literacy Course, PSY M01A, PSY M01B, PSY M04, PSY M07, PSY M09, PSY M10.

Pre-Occupational Therapy AA Option
Add the following courses:
ENGL M01B Literature: Critical Thinking/Composition ............ 3
ENGL M01C Critical Thinking and Composition ...................... 3
CHEM M12 Introductory Chemistry I ................................... 5
MATH M15 Introductory Statistics ...................................... 5
PHYS M01 Descriptive Physics ........................................ 3
MICR M01L Descriptive Physics Laboratory ......................... 1
PSY M8 Abnormal Psychology ........................................ 3
and one of the following art classes:
ART M08A Beginning Ceramics .......................................... 3
ART M09A Ceramic Design ............................................... 3
ART M14A Silk-Screen-Serigraph Printmaking ...................... 2
ART M23 Beginning Stained Glass Design ......................... 3
TOTAL ................................................................................. 28-29

**Recommended Courses:** NTS M01, HS M19A or HS M19B
Pre-Physical Therapy AA Option
Add the following courses:
CHEM M01A General Chemistry I ........................................... 6
CHEM M01B General Chemistry II .......................................... 6
MATH M15 Introductory Statistics ........................................... 5
PHYS M10A General Physics I ................................................. 4
PHYS M10AL General Physics I Laboratory ............................ 1
PHYS M10B General Physics II ............................................... 4
PHYS M10BL General Physics II Laboratory .......................... 1
CIS M11 Introduction to Information Systems ...................... 3
CIS M11L Introduction to Information Systems Lab .............. 1
TOTAL .................................................. 36

Recommended Courses: NTS M01, HS M19A or M19B

Pre-Radiologic Technology
Transfer AA Option
Add the following courses:
PHYS M10A General Physics I ................................................. 4
PHYS M10AL General Physics I Laboratory ............................ 1
PHYS M10B General Physics II ............................................... 4
PHYS M10BL General Physics II Laboratory .......................... 1
TOTAL .................................................. 10

Recommended: HS M15, HS M19A or HS M19B

HSI Path #3 Core Courses
Majors within this path: Health Information Technology, Nursing Science, Radiologic Technology

Required Courses: Units
HS M16 Basic Skills for the Health Care Provider ................... 1
HS M20 Introduction to Health Science .................................. 2
BIOL M2A General Biology I .................................................. 4
MATH M07 College Algebra and Trigonometry ....................... 5
ANAT M01 General Human Anatomy ..................................... 4
PHYS M01 Human Physiology ................................................. 5
ENG M01A English Composition ............................................. 3
CHEM M12 Introductory Chemistry I ..................................... 5
TOTAL .................................................. 26

* Most common transfer requirement, refer to transfer institution catalog.

Additional Requirements: Completion of General Education courses. Make a counseling appointment by calling (805) 378-1428.

Nursing Science AS and Transfer Option
Add the following courses:
MCIR M01 Principles of Microbiology .................................... 5
PSY M01A Introduction to Psychology ..................................... 3
SOC M01 Introduction to Sociology ......................................... 3
or
ANTH M02 Cultural Anthropology .................................... 3
SPCH M01 Introduction to Speech ........................................ 3
Required Nursing Science courses (See page 117) .................... 36.5
TOTAL .................................................. 53.5

Recommended Courses: HS M15, M18, M19A or M19B, NTS M01, PHYS M01, PSY M01B, M05, M07, M11, M30
For UCLA take: MATH M25A, CHEM M01A, CHEM M01B, for other transfer programs take CHEM M15, MATH M15, computer literacy course.

Radiologic Technology AS and Transfer Option
Add the following courses:
PHYS M10A General Physics I ................................................. 4
PHYS M10AL General Physics I Laboratory ............................ 1
PHYS M10B General Physics II ............................................... 4
PHYS M10BL General Physics II Laboratory .......................... 1
Required Radiologic Technology Courses (see pg. 118) .......... 57
TOTAL .................................................. 67

Additional Requirements:
Computer literacy course or challenge with a grade of C or better. CIS M17 recommended (1 unit).

HSI Path #4 Core Courses
Majors within this path: Health Information Technology, Nursing Science, Radiologic Technology

Required Courses:
ANPH M01 Intro to Human Anatomy and Physiology ............ 3
ANPH M01L Intro to Human Anatomy and Physiology Lab ....... 2
ENGL M01A English Composition ........................................... 3
HS M16 Basic Skills for the Health Care Provider ................... 1
(SOC M01 Introduction to Sociology) .................................... 3
TOTAL .................................................. 11

Additional Requirements:
MATH M01 (5 units) or qualify for MATH M03
CHEM M12 (5 units) or completion of high school chemistry with a grade of “C” or higher.
Completion of General Education courses.
Make a counseling appointment by calling (805) 378-1428.

Nursing Science AS Option
Add the following courses:
BIOL M01 Principles of Biology ............................................ 4
MCIR M01 Principles of Microbiology .................................... 5
PSY M01A Introduction to Psychology ..................................... 3
SOC M01 Introduction to Sociology ......................................... 3
or
ANTH M02 Cultural Anthropology .................................... 3
SPCH M01 Introduction to Speech ........................................ 3
Required Nursing Science Courses (see page 117) .................... 37
TOTAL .................................................. 55

Radiologic Technology AS Option
Add the following courses:
PHYS M05 Radiation Physics ................................................. 3
PHYS M05L Radiation Physics Laboratory ............................. 1
HS M19A Beginning Medical Terminology ............................ 3
or
HS M19B Advanced Medical Terminology ............................ 3
Required Radiologic Technology Courses (see page 118) .......... 57
TOTAL .................................................. 64

Additional Requirements:
Computer literacy course or challenge with a grade of C or better. CIS M17 recommended (1 unit).

Associate in Science Degrees for Career
Entry Nursing Science -- Radiologic Technology

Application Procedure
Academic Year 1999-2000
This application period is for all applicants, including request for Advanced Placement. The application period for receipt by the Nursing/Radiography counselors of all applicant information and transcripts is:
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 or or Moorpark College prior to scheduling an application counseling interview.

1. The following must be completed before submission of the application:
   - High school graduation or General Education Development (GED) with a score of 45 or successfully pass the California High School Proficiency Exam. (CHSPE)

2. College GPA of 2.5

3. MATH M01 - Elementary Algebra
   - Qualify for MATH M03 - Intermediate Algebra or complete MATH M01 Elementary Algebra or equivalent college course with a minimum grade of C.

4. English: Completion of ENGL M02 - Intro to College Writing or equivalent readiness measured by the assessment process.

5. Additional Nursing Science prerequisite qualifying requirements:
   - ANAT M01 and PHSE M01 or ANPH M01/M01L or equivalent. Completion of a minimum 5-credit college Anatomy and Physiology course with a laboratory and a minimum grade of C.
   - CHEM M12 or equivalent. High school chemistry with minimum grade of C or complete a minimum 4-credit college chemistry course with a laboratory and a minimum grade of C.
   - MICRO M01 or equivalent (AANM M25 or equivalent). Completion of a minimum 4-credit college 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.
   - HS M16 or equivalent. Completion of a minimum of a 1-credit clinical skills course with a laboratory and a minimum grade of C.

6. Additional Radiologic Technology prerequisite qualifying requirements:
   - ANAT M01 and PHSE M01 or ANPH M01/M01L or equivalent. Completion of a minimum 5-credit college Anatomy and Physiology course with a laboratory and a minimum grade of C.
   - HS M16 or equivalent. Completion of a minimum of a 1-credit clinical skills course with a laboratory and a minimum grade of C.
   - HS M19A or M19B - Medical Terminology. Completion of a minimum 3-credit college Medical Terminology course with a minimum grade of C. PHYS M01/M01L or PHYS M05/M05L or PHYS M10A/M10AL and M10B/M10BL or equivalent. Completion of a minimum 5-credit college Radiography course with a laboratory and a minimum grade of C. Please note: PHYS M10A/M10AL and M10B/M10BL are required for transfer to California State University Northridge's Radiography Program.

7. Performance Standards.

In compliance with the 1990 American with Disabilities Act, the Health Sciences does not discriminate against qualified applicants with disabilities. These performance standards, reflected in specific course/program objectives, are to assist each applicant in determining eligibility and the need for accommodations or modifications. The Faculty in conjunction with the community clinical facilities will determine, on an individual basis, whether the necessary accommodations or modifications can reasonably be made.


b. Interpersonal - abilities sufficient to interact with individuals, families, and groups with diverse social, emotional, cultural, and intellectual backgrounds: function effectively under stress. Example: Establish rapport with diverse clients and colleagues.


d. Mobility - physical abilities sufficient to move from room to room and maneuver in small spaces and reach overhead equipment. Examples: Move around client's rooms, equipment/machines, workspaces, and diagnostic/treatment areas: administer Emergency/CPR procedures.

e. Motor Skills - gross and fine motor abilities sufficient to provide safe and effective care. Examples: Calibrate, move and use equipment/machines: lift, position and transfer clients.

f. Hearing - ability sufficient to monitor and assess health needs. Examples: Hear monitor alarm, emergency signals, auscultatory sounds, cries for help.

g. Visual - ability sufficient for observation and visual assessment in well lit and dimly lit areas. Examples: Observe patient/client responses and changes in condition.

h. Tactile - ability sufficient for physical assessment and positioning. Examples: Perform palpation, functions of physical examination and or those related to intervention, e.g., insertion of needle, positioning.

All interested applicants should contact the Counseling Office for an appointment for a monthly group Counseling Orientation Seminar.

Enrollment Process
1. Upon completion of the Qualifying Requirements and with all official transcripts on file at Moorpark College, the applicant is schedule an appointment with a Nursing/Radiography Counselor in order to review transcripts. The applicant is to arrive thirty minutes prior to the appointment to receive and complete a program application.

2. All programs are impacted. Each qualified applicant will be 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. The Health Science Department will contact applicants regarding acceptance/admission.

4. Admission may be denied to an applicant who has failed or withdrew from a program and whose overall record makes program completion unlikely (example: two program withdrawals); or who has health and/or safety deficits which place clients at risk.

Enrollment Requirements

After students have been selected by the above procedure, the following requirements must be met prior to the clinical lab experience:

a. A Physical Exam documented on the Moorpark College Nursing and Radiography Health Appraisal form available in the Student Handbook, which considers freedom from communicable diseases and ability to function in a hospital setting.

   i. Proof of Immunity to Rubella, Mumps, Rubella, Hepatitis B, Varicella

   ii. Current immunity status TdRL

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 M18 or Red Cross Certified: CPR-C.

c. Malpractice Insurance. Paid as part of the first and third semester course registration fees.

For more information concerning these admissions 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 that 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.

Some courses are taken on campus concurrently with supervised clinical laboratory experience in selected hospitals and health care agencies. The clinical sites extend from northern Ventura County to the western portions of the San Fernando Valley, within an approximate 40-mile radius from Moorpark College. Each student is responsible for his or her own transportation. For successful completion of a Health Sciences program, a minimum grade of C is necessary in all courses required for the major. The student must maintain an overall GPA of 2.0 to continue in a Health Sciences program.

A materials fee is mandatory at registration for many of the Nursing and Radiography courses. The materials fees range from $8.00 to $105.00.

Advanced Placement

Opportunities for advanced placement are available to: Licensed Vocational Nurses, Limited Permit X-Ray Technicians, others with Health Care credentials and transfer students from accredited colleges or programs and readmission applicants, based on space available. Limited Permit X-Ray Technicians may be admitted to Advanced Placement Level 1 Spring semester after passing the RADT M01B Challenge Exam or successful completion of RADT M01B fall semester. For others, there are several options available depending on the qualifications and needs of the applicant. Please review the Credit by Examination Policy discussed in the Academic Policies section of this catalog.

Advanced placement applicants will have access to open spaces with priority given to former Moorpark College Health Science students in good standing. Credit for courses taken at another institution will be evaluated on an individual basis. Advanced placement applicant students are not accepted or readmitted into the last semester of a Health Science program.

Continuing Education

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.

Moorpark College has been approved by the Board of Registered Nursing as a Continuing Education Provider (number 0281).

The Board of Registered Nursing recognizes academic courses for continuing education credit with "...one (1) academic semester unit equal to 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 M01, M02, CD M40; Foreign Languages; HS M15; NS M22A/B, M25A-Z; NT S M01, M03, M04, M05; PSY M03, M04, M05, M08, M09, M10, M11, M30; SOC M02, M04, M05; SPED M10A, M10B, M10C. 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.

After completion of 12 units in residence at Moorpark College, students who hold a current California license as a Registered Nurse or a Radiologic Technologist and are presently enrolled and in good standing at Moorpark College may petition through the Nursing/Radiography Counselor for units of credit through the appropriate Nursing/Radiography program applicable toward an A.S. degree.

Health Sciences Technology Degree

Associate in Science Degree

Health Information Technology (HIT) is a regional program jointly offered by Moorpark College and Santa Barbara City College throughout the Tri-Counties and Antelope Valley. Pending accreditation review by the Commission on Accreditation of Allied Health Education Programs (CAHEP) in cooperation with the Council on Accreditation of the American Health Information Management Association (AHIMA), graduates will be eligible to apply for writing the national qualifying exam for certification as an Accredited Record Technician (ART).

Distance Learning

Courses in the Health Information Technology (HIT) program are offered through distance learning. Rather than attend a class at set times each week, students meet as a small group near the community college on a weekly basis at mutually convenient times/locations for the majority of group members. A student facilitator, selected by the group, will lead/moderate discussion sessions, where course content, exercises and assignments will be discussed. For those students who have computer/internet access, bulletin boards, chatrooms and faculty office hours are available online.
Qualifying Requirements
Qualify for MATH M05 (Intermediate Algebra) or complete MATH M01 (Elementary Algebra); Complete ENGL M05 (Intro to College Writing) or demonstrate equivalent readiness measured by the assessment process.

Enrollment Process
To begin the Health Information Technology Program, enroll in the HIT 100 Health Information Management course and attend one of the mandatory orientation sessions. To assist students with registration and to provide information on the courses, three mandatory sessions are offered each fall semester at three sites in the Region. Attendance at a mandatory session is required for admission into the HIT Program. To make a counseling appointment at Moorpark College, call (805) 378-1428.

Credit/Graduation
Upon completion of the HIT Program requirements and the institution’s general education graduation requirements, students have the option of graduating with an Associate of Science Degree from either Antelope Valley, Cuesta, Moorpark, Oxnard, Santa Barbara or Ventura Colleges.

Financial Aid
Financial aid collaboration agreements have been made between all the Community Colleges in the Tri-Counties Region and Antelope Valley College. Students may meet financial aid eligibility requirements by combining the units taken at the participating colleges. The course work required for the Associate of Science Degree in Health Information Technology at Moorpark College is as follows:

**Required General Education Courses:**
- ENGL M01A .........English Composition ................................. 3
- HS M17 .............Health Care Ethics .................................. 3
- (*meets Humanities GE requirement)

**Additional Required Courses:**
- ANPH M01 .......... Intro to Human Anatomy & Physiology (no lab) ... 3
- BUS M31 .......... Intro to Management .................................. 3
- CIS M16 .......... Intro to Information Systems ......................... 3

**Required Health Information Technology (HIT) and Health Science (HS) Courses:**

<table>
<thead>
<tr>
<th>Units</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>HS M17 .........Health Care Ethics ......................... 3</td>
</tr>
<tr>
<td>3</td>
<td>HS M19 .........Medical Terminology ..................... 3</td>
</tr>
<tr>
<td>3</td>
<td>HS M21 ..........Intro to US Health Care Delivery Systems .. 3</td>
</tr>
<tr>
<td>2</td>
<td>HS M23 ..........Pharmacology for Allied Health .............. 2</td>
</tr>
<tr>
<td>3</td>
<td>HS M25 .........Basic Pathophysics ....................... 3</td>
</tr>
<tr>
<td>2</td>
<td>HIT 100 ......Intro to Health Information Management ...... 2</td>
</tr>
<tr>
<td>3</td>
<td>HIT 200 ....Clinical Classification Systems: ICD-9-CM .... 3</td>
</tr>
<tr>
<td>2</td>
<td>HIT 210 ....Clinical Classification Systems: CPT ............ 2</td>
</tr>
<tr>
<td>2</td>
<td>HIT 220 ....Statistical Applications in Health Care ........ 2</td>
</tr>
<tr>
<td>2</td>
<td>HIT 230 ....Alternative Delivery Systems ................ 2</td>
</tr>
<tr>
<td>2</td>
<td>HIT 240 ....Clinical Quality Assessment and Improvement ...... 2</td>
</tr>
<tr>
<td>3</td>
<td>HIT 250 ....Data Quality and Reimbursement Methodologies .... 3</td>
</tr>
<tr>
<td>3</td>
<td>HIT 275 ....Professional Directed Practice ................ 3</td>
</tr>
</tbody>
</table>

**Total:** 12

The HIT course sequence does not include remaining general education courses. A part-time progression is possible taking general education courses separate from the HIT courses. For more information concerning admissions, program requirements and the curriculum, contact HSI Counselors or the HIT Program Office at (805) 965-0581, ext. 2851.

### Nursing Science Degree

#### 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](https://www.brn.ca.gov/) and by the [National League for Nursing](https://www.nln.org/). The course work required for the Associate in Science Degree in Nursing Science is as follows:

**Preparation for the Nursing Major:**

<table>
<thead>
<tr>
<th>Units</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>ANPH M01/M01L ...Intro to Human Anatomy/Physiology/Lab ........... 5</td>
</tr>
<tr>
<td>3 hrs Lec., 6 hrs Lab. (prerequisite: BIOL M01 or equivalent college course)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ANAT M01 ..........General Human Anatomy; 2 hrs Lec, 6 hrs Lab. ... 4</td>
</tr>
<tr>
<td>(prerequisite: BIOL M01 or BIOL M02A or equivalent) and</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>PHSO M01 .........Human Physiology; 4 hrs Lec., 3 hrs Lab. ........... 5</td>
</tr>
<tr>
<td>(prerequisites: CHEM M12 or equivalent or high school chemistry and BIOL M01 or BIOL M02A or equivalent)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>MICR M01 ..........Principles of Microbiology; 3 hrs Lec., ........... 5</td>
</tr>
<tr>
<td>6 hrs Lab. (prerequisites: CHEM M12 or equivalent or high school chemistry and a satisfactory grade in BIOL M01 or BIOL M02A or equivalent)</td>
<td></td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Units</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ENGL M01A ......English Composition ................................. 3</td>
</tr>
<tr>
<td>3</td>
<td>PSY M01A ..Intro to Psychology ........................................ 3</td>
</tr>
<tr>
<td>3</td>
<td>SPCCH M01 ....Intro to Speech ........................................... 3</td>
</tr>
</tbody>
</table>
Select one (1) of the following courses:
- ANTH M02: Cultural Anthropology ........................................ 3
- SOC M01: Intro to Sociology ............................................. 3
- HS M107: Health Care Ethics ........................................... 3

Choose one course from each category:
- American History and Institutions .................................... 3
- Fine or Performing Arts ................................................. 3
- Physical Education ....................................................... 1-3
- Physical Science ................................................................ 4
  - (CHEM M12 or PHYS M05 meets the requirement)
- Biological Science .......................................................... 4
  - (BIOL W01 or BIOL W2A or ANPH W01/W01L from Ventura
    College meets this requirement)

Other suggested (not required) relevant courses:
- Computer Literacy course: HS M15, M18, M19A/B, M20, NT S M01, M05;
- PHYS M01, PSY M01B, M05, M07, M11, M30

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

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

### Required Nursing Science Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS M01A/M01AL</td>
<td>Beginning Nursing Science I/Beginning Clinical Nursing Lab I</td>
<td>2/2</td>
</tr>
<tr>
<td>NS M01B/M01BL</td>
<td>Beginning Nursing Science II/Beginning Clinical Nursing Lab II</td>
<td>2/2</td>
</tr>
<tr>
<td>NS M02A/M02AL</td>
<td>Maternal Child and Gynecological Nursing/Clinical Nursing Lab</td>
<td>2.5/2.5</td>
</tr>
<tr>
<td>NS M02B/M02BL</td>
<td>Intermediate Nursing Science I/Intermediate Clinical Nursing Lab I</td>
<td>2.5/2</td>
</tr>
<tr>
<td>NS M03A/M03AL</td>
<td>Intermediate Nursing Science II/Intermediate Clinical Nursing Lab II</td>
<td>2.5/2.5</td>
</tr>
<tr>
<td>NS M03B/M03BL</td>
<td>Psychiatric/Gerontological/Community Nursing/Clinical Nursing Lab</td>
<td>2.5/2.5</td>
</tr>
<tr>
<td>NS M04A/M04AL</td>
<td>Advanced Nursing Science/Advanced Clinical Nursing Lab</td>
<td>2.5/2.5</td>
</tr>
<tr>
<td>NS M04B</td>
<td>Preparation for Professional Practice ± Preceptorship</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total** ................................................................. **36.5**

### Nursing Science Course Sequence:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Clinical Hours</th>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>3 hrs, 6 hrs Lab. (prerequisite: BIOL M1 or equivalent college course)</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Second Semester</td>
<td>NS M02A/M02AL, NS M02B/M02BL, NS M12A*, NS M12B*, NS M22A*</td>
<td></td>
<td>11.5</td>
</tr>
<tr>
<td>Summer Session</td>
<td>NS M49*</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Fourth Semester</td>
<td>NS M04A/M04AL, NS M04B, NS M14A*, NS M22A*</td>
<td></td>
<td>11.5</td>
</tr>
</tbody>
</table>

*Elective* Nursing Science Courses

This sequence does not include the required science and general education classes.

### Radiologic Technology Degree

#### 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 Joint Review Committee on Education in Radiologic Technology, and by the California Department of Health. Radiography students must complete (or be enrolled in) all general education and required Radiologic Technology courses to be eligible to take the California and National Licensing Exams administered during the last semester of the program.

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

**Preparation for the Radiography Major:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANPH M01/M01L</td>
<td>Intro to Human Anatomy/Physiology/Lab</td>
<td>5</td>
</tr>
<tr>
<td>ANAT M01</td>
<td>General Human Anatomy: 2 hrs Lec., 6 hrs Lab.</td>
<td>4</td>
</tr>
<tr>
<td>PHSO M01</td>
<td>Human Physiology: 4 hrs Lec., 3 hrs Lab.</td>
<td>5</td>
</tr>
<tr>
<td>PHYS M05/M05L</td>
<td>Radiation Physics/Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total** ................................................................. **10**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH M01</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
</tbody>
</table>

**These courses are required for transfer to California State University Northridge's Bachelor's in Radiologic Technology:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS M10A</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
</tbody>
</table>
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 M01A .... English Composition .......................... 3

Choose one course from each category.
Biological Science .............................................. 4
(BIOL M02A or ANPH V01/01L from Ventura College meets this requirement)
American History and Institutions ............................ 3
Social and Behavioral Science .................................. 3
(PSY M01A is recommended)
Fine or Performing Arts ....................................... 3
Humanities (SPCH M01 is recommended) ...................... 3
Communication or Analytical Thinking ........................ 3
(PHIL M07, PHIL M09 or SPCH M07 is recommended)
Physical Education ........................................... 1-3
Computer Literacy Course .................................. 1
(GIS M15 is recommended)

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

Required Radiologic Technology Courses: 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT M01A/M01AL</td>
<td>Fundamentals of Radiographic Practice I/ Fundamentals Clinical Lab I</td>
<td>3/5</td>
</tr>
<tr>
<td>RADT M01B</td>
<td>Principles of Radiation Interaction and Radiographic Technique I</td>
<td>3</td>
</tr>
<tr>
<td>RADT M02A/M02AL</td>
<td>Fundamentals of Radiographic Practice II/ Fundamentals Clinical Lab II</td>
<td>3/5</td>
</tr>
<tr>
<td>RADT M02B</td>
<td>Principles of Radiation Protection, Radiobiology/Radiographic Technique II</td>
<td>3</td>
</tr>
<tr>
<td>RADT M03A/M03AL</td>
<td>Intermediate Radiographic Practice/ Intermediate Clinical Lab</td>
<td>2/8</td>
</tr>
<tr>
<td>RADT M03B</td>
<td>Radiographic Pathology</td>
<td>3</td>
</tr>
<tr>
<td>RADT M04A/M04AL</td>
<td>Advanced Radiographic Practice/Advanced Clinical Laboratory</td>
<td>3/8</td>
</tr>
<tr>
<td>RADT M10/M10L</td>
<td>Intro to Radiologic Technology/Intro to Radiologic Technology Skills Lab</td>
<td>1.5/1</td>
</tr>
<tr>
<td>RADT M11</td>
<td>Radiography Skills Lab I</td>
<td>1</td>
</tr>
<tr>
<td>RADT M12</td>
<td>Radiologic Technology Skills Lab II</td>
<td>1</td>
</tr>
<tr>
<td>RADT M13</td>
<td>Radiography Skills Lab III</td>
<td>1</td>
</tr>
<tr>
<td>RADT M14</td>
<td>Radiographic Film Critique Skills Lab</td>
<td>1</td>
</tr>
<tr>
<td>RADT M49</td>
<td>Radiographic Summer Practicum</td>
<td>4.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>57.0</strong></td>
</tr>
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</table>

Radiologic Technology Course Sequence:
All students must begin program Summer Session.

Summer Session #1
HS M18 ........................................ 0.5
(or Red Cross Certificate CPR-C)
RADT M10/M10L ........................................ 1.5/1
**Total** ........................................ 3

Summer Session #2
RADT M49 ........................................ 4.5
**Total** ........................................ 4.5

Fall Semester #1
RADT M01A/M01AL ........................................ 3/5
RADT M01B ........................................ 3
RADT M11 ........................................ 1
**Total** ........................................ 12

Spring Semester #1
RADT M02A/M02AL ........................................ 3/5
RADT M02B ........................................ 3
RADT M12 ........................................ 1
**Total** ........................................ 12

Fall Semester #2
RADT M03A/M03AL ........................................ 2/8
RADT M03B ........................................ 3
RADT M13 ........................................ 1
**Total** ........................................ 14

Spring Semester #2
RADT M04A/M04AL ........................................ 3/8
RADT M14 ........................................ 1
**Total** ........................................ 12

*This sequence does not include the required science and general education courses.

Health Science Courses

HS M15 -- 3 Units
Pharmacology
Prerequisite: None
Class Hours: 3 lecture
Approved for continuing education hours by the California Board of Registered Nursing, provider number 0881 for 45 contact hours.
Introduces mechanisms and uses of currently available drugs, establishing foundation for understanding future developments in drug therapy and for administering drugs more efficiently and safely. Applies drug information and mathematical calculations in clinical setting. The course may be repeated to monitor constantly changing pharmaceutical approaches and resultant practical implications. May be taken four (4) times for credit. Applies to Associate Degree.
Transfer credit: CSU

HS M16A -- 1 Unit
Basic Skills for the Health Care Provider
Prerequisite: None
Class Hours: 1 lecture, 6 lab for 6 weeks
Introduces basic client care skills for entering a career in Health Care Industry or for providing home care. Focuses on principles/practices of safe and effective care in evolving multicultural environment. Integrates communication, caring, safety, documentation, ethics, and legal accountability with effective client care. May be taken two (2) times for credit. Applies to Associate Degree.

HS M16B -- 3 Units
Certified Nurse Assistant
Prerequisites: Current Cardiopulmonary Resuscitation C Certification or HS M18 and HS M16A; Recent health examination including medical history and physical examination; PPD skin test or chest x-ray; written medical verification of absence of potentially harmful health condition.
Class Hours: 5 lecture for 10 weeks, 13 lab for 9 weeks
Prepares students for certification by the State of California as an entry-level, health-care team member, focusing on responsibilities of the Certified Nurse Assistant set forth in Title 22: California Code of Regulations, Division 5, Chapter 2.5. Reviews professionalism; ethics; confidentiality; communication and interpersonal skills; infection control; safety and emergency procedures; body mechanics; medical and surgical asepsis; weights and measurements; and basic patient care skills and procedures. Applies to Associate Degree.
HS M17 — 3 Units
Health Care Ethics
Prerequisite: None
Class Hours: 3 lecture
Approved for continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Explores ethical health care issues and implications from societal, institutional, individual and clinical perspectives. Provides legal foundation for analyzing and resolving ethical problems, reviewing bioethic theories and principles, legal liability, confidentiality, ethical conflict, and moral dilemmas. (Same course as PHIL M17). Applies to Associate Degree. Transfer credit: CSU.

HS M18 — 0.5 Unit
CPR-C for Health Science
Prerequisite: Admission to Health Science Program or a health care professional
Class Hours: 8 lecture total
Provides basic Cardiopulmonary Resuscitation techniques of single person, two person, child and infant resuscitation. Covers basic techniques to relieve obstructed airway in adult, child and infant; standards required by hospitals related to emergency resuscitation procedures; and orientation to crash cart medications and protocol. Only offered credit/no-credit. May be taken four (4) times for credit. Fulfills general education health requirement for the A.S. degree in nursing and radiologic technology. Applies to Associate Degree.

HS M19 — 3 Units
Medical Terminology
Prerequisite: Anatomy and/or Physiology
Class Hours: 3 lecture
Introduces medical terminology and anatomical systems, using documented health care case studies and reports. Reviews extensive application exercises. Applies to Associate Degree. Transfer credit: CSU.

HS M20 — 2 Units
Introduction to Health Science
Prerequisite: None
Class Hours: 2 lecture
Reviews current status of health care industry and employment opportunities, emphasizing strategies for success as well as preparation, admission and completion of a Health Science education. Includes individual assessment of aptitude and career interest. Applies to Associate Degree. Transfer credit: CSU.

HS M21 — 3 Units
Introduction to the U.S. Health Care System
Prerequisite: None
Class Hours: 3 lecture
Approved for continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Introduces U.S. Health Care System, clarifying system structure, legislative and regulatory influences applicable to American federal, state and local government and politics; public policy process; economic theory; marketing theory; alternative health care delivery; social and health care culture; and the evolution of integrated delivery systems and managed care. Emphasizes society’s response to health care needs, fostering awareness of responsibility to preserve and improve health care of society. Applies to Associate Degree. Transfer credit: CSU.

HS M23 — 2 Units
Pharmacology for Allied Health
Prerequisite: None
Class Hours: 2 lecture
Introduces basic pharmacological terminology and concepts, drug categories and uses, mechanisms of drug action, dosage forms, routes of administration, and common generic and trade name medications. Applies to Associate Degree. Transfer credit: CSU.

HS M24 — 3 Units
Emergency Medical Technician I
Prerequisite: Current certification as Basic Life Support provider and HS M19 or Medical Terminology course.
Class Hours: 4 lecture, 3 lab, plus 16 hours as arranged
Introduces pre-hospital basic life support procedures at an emergency site, during transport of the sick and injured, or during interfacility transfer. Reviews anatomy, physiology, patient assessment, and emergency care of patients of all ages, emphasizing pre-hospital phase. Includes skills training and clinical experiences in emergency room and on emergency vehicle. Successful course completion provides eligibility for state certification examination for EMT-I, if all other state and age requirements met at time of exam. Applies to Associate Degree.

HS M25 — 3 Units
Basic Pathophysiology
Prerequisites: ANPH M01/M01L or ANAT M01 and PHSO M01 and High School Chemistry or CHEM M12 or CHEM M01A
Class Hours: 3 lecture
Approved for continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Introduces fundamentals of pathophysiology, focusing on physiologic changes and altered functions resulting from disease processes. Reviews principles from anatomy, physiology, and chemistry as foundation for study of basic disease process concepts, body systems, etiology, and pathogenesis of various disorders. Explores diagnostic procedures, preventative measures, and current therapeutic regimes. Applies to Associate Degree. Transfer credit: CSU.

HS M80 — 1 to 4 Units
Internship in Health Sciences
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Extends classroom activities to a supervised, on the job learning experience directly connected to educational and/or occupational goals. Provides direct supervision of a health science faculty supervisor as well as a health care industry supervisor. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. Health Science Internships are available in the following health care settings: acute care, community health and ambulatory care. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations.
Nursing Science Courses

NS M01A -- 2 Units
Beginning Nursing Science I
Prerequisite: Admission to Moorpark College ADN Program
Corequisite: NS M1AL
Class Hours: 4 lecture for 8 weeks
Reviews basic nursing skills and principles, emphasizing cultural diversity awareness as well as growth and development concepts. Introduces client assessment, diagnosis, and intervention and evaluation, including identification of client’s universal self-care requisites: air, water, food, elimination and activity as well as social, safety and normalcy patterns. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

NS M01AL -- 2 Units
Beginning Clinical Nursing Laboratory I
Prerequisite: Admission to Moorpark College ADN Program
Corequisite: NS M01A
Class Hours: 12 clinical for 8 weeks
Provides hands-on application of basic nursing skills and principles in the care of geriatric clients. Requires two clinical days per week. First clinical day learning nursing skills in lab; second day applying skills in extended care facility. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

NS M01B -- 2 Units
Beginning Nursing Science II
Prerequisite: NS M01A
Corequisite: NS M01BL
Class Hours: 4 lecture for 8 weeks
Reviews turning nursing process into practice, emphasizing assessment of self-care demands/deficits, determination of nursing diagnosis, and delivery of intervention based on beginning nursing skills. Reviews acting, teaching, guiding and supporting with follow-up evaluation. Introduces medication administration. Integrates nutrition, pharmacology, and legal/ethical and bio-psycho-social-spiritual concerns with preventive, supportive, rehabilitative nursing. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

NS M01BL -- 2 Units
Beginning Clinical Nursing Laboratory II
Prerequisite: NS M01AL
Corequisite: NS M01B
Class Hours: 12 clinical for 8 weeks
Provides application of more complex clinical nursing concepts and skills in lab environment. Requires two clinical days per week in an acute care facility, focusing on care throughout the life cycle. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

NS M02A -- 2.5 Units
Maternal Child and Gynecological Nursing
Prerequisites: NS M01A/M01AL and NS M01B/M01BL
Corequisite: NS M02AL
Class Hours: 5 lecture for 8 weeks
Introduces childbearing, emphasizing pregnancy/complications, fetal development, labor and delivery, postpartum and newborn periods, pediatrics and women’s health. Involves identification of requisite and self-care deficits including health deviations related to women, infants and children as well as the planning, implementing, and evaluation of nursing actions. Uses concepts from Orem’s model. Integrates nutrition, pharmacology, and legal/ethical and bio-psycho-social-spiritual concerns with preventive, supportive, rehabilitative nursing. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

NS M02AL -- 2.5 Units
Maternal Child and Gynecological Clinical Nursing Laboratory
Prerequisite: NS M01A/M01AL and NS M01B/M01BL
Corequisite: NS M02A
Class Hours: 15 clinical for 8 weeks
Provides application of nursing process as well as maternal, child and gynecological concepts and skills to the obstetrical, pediatric and gynecological client in maternal child care, outpatient and community setting. Lab may be day, evening or combination. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

NS M02B -- 2.5 Units
Intermediate Nursing Science I
Prerequisite: NS M01A/M01AL and NS M01B/M01BL
Corequisite: NS M02BL
Class Hours: 5 lecture for 8 weeks
Expands concept of self-care and utilization of the nursing process, focusing on interactions of self-care agency, nursing agency and health care team members to meet the client's self-care demands. Studies selected adult-elder/pediatric self-care deficits requiring intermediate nursing actions related to health promotion and deviations, including musculoskeletal, hematologic, gastrointestinal, fluid/electrolyte, renal, cardiovascular, respiratory, and diabetes. Also studies diagnostic measures, medical therapeutic modalities, pharmacology and medication administration as well as nutrition and cultural, spiritual and mental health concerns. Emphasizes critical thinking and decision-making skills, legal and ethical considerations, and growth and development related to client's therapeutic self-care demands. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

NS M02BL -- 2 Units
Intermediate Clinical Nursing Laboratory I
Prerequisite: NS M01A/M01AL and NS M01B/M01BL
Corequisite: NS M02B
Class Hours: 12 clinical for 8 weeks
Provides application of intermediate concepts and skills in acute and ambulatory care facilities. Requires two six-hour clinical rotations. Lab may be day, evening or combination. Offers clinical rotations in specialty areas, including surgical department, gastrointestinal laboratory, and emergency department. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

NS M03A -- 2.5 Units
Intermediate Nursing Science II
Prerequisite: NS M02A/M02AL and NS M02B/M02BL
Corequisite: NS M03AL
Class Hours: 5 lecture for 8 weeks
Emphasizes self-care concept of nursing and the interaction of nursing agency and self-care agency to meet client’s self-care demands. Focuses on selected adult/geriatric and pediatric clients with health deviations and self-care deficits related to advanced nutritional or sensorimotor alterations, physical integrity, and human functioning. Incorporates diagnostic measures, medical therapeutic modalities, and pharmacology and medication administration as well as nutrition and cultural, spiritual and mental health concerns. Explores the role of the professional nurse in health care delivery, reviewing client education and ethical considerations. Develops critical thinking and problem-solving skills, emphasizing patient care management. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU
NS M03AL -- 2.5 Units
Intermediate Nursing Science Laboratory II
Prerequisites: NS M02A/M02AL and NS M02B/M02BL
Corequisite: NS M03A
Class Hours: 15 clinical for 8 weeks
Provides application of nursing process and intermediate concepts and
skills in an acute care facility. Applies critical thinking and problem-
solving skills and refines communication and interpersonal relation-
ship skills. Focuses on patient care management. Requires two 7.5-
hour clinical rotations. Labs may be day, evening or combination. May
be taken two (2) times for credit. Applies to Associate Degree. Transfer
credit: CSU

NS M03B -- 2.5 Units
Psychiatric/Gerontological/Community Nursing
Prerequisites: NS M02A/M02AL and NS M02B/M02BL
Corequisite: NS M03B
Class Hours: 5 lecture for 8 weeks
Focuses on applying nursing process to the client, community, family
and groups with psycho-social self-care deficits across the adult-elder
life span. Emphasizes chronic mental and physical deficits impacting
the adult-elder population as well as responses to these deficits, includ-
ing intervention modes: wholly compensatory, partially compensatory,
and educative/supportive. May be taken two (2) times for credit. Applies
to Associate Degree. Transfer credit: CSU

NS M03BL -- 2.5 Units
Psychiatric/Gerontological/Community Clinical Nursing
Laboratory
Prerequisites: NS M02A/M02AL and NS M02B/M02BL
Corequisite: NS M03B
Class Hours: 15 clinical for 8 weeks
Provides application of nursing concepts and skills to adult psychiatric
and gerontological clients in acute care, community health and conva-
lescent care facilities. Includes day and evening clinical rotations. May
be taken two (2) times for credit. Applies to Associate Degree. Transfer
credit: CSU

NS M04A -- 2.5 Units
Advanced Nursing Science
Prerequisites: NS M03A/M03AL and NS M03B/M03BL
Corequisite: NS M04A
Class Hours: 5 lecture for 8 weeks
Focuses on complex health deviations involving multiple systems within
family context. Utilizes holistic approach to client's health functions
(organic, psychological, and social) throughout the life cycle, empha-
sizing compensatory, partially compensatory, and educative-supportive
responses. Emphasizes professional judgment, critical thinking,
decision-making, leadership, collaboration, and teaching. May be taken
two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

NS M04AL -- 2.5 Units
Advanced Clinical Nursing Laboratory
Prerequisites: NS M03A/M03AL and NS M03B/M03BL
Corequisite: NS M04A
Class Hours: 15 clinical for 8 weeks
Provides application of advanced nursing concepts and skills in acute
care facility, providing intensive care and other specialty experience.
Requires two 7.5-hour clinical rotations. Labs may be days, evenings,
or combination. May be taken two (2) times for credit. Applies to Asso-
ciate Degree. Transfer credit: CSU

NS M04B -- 4 Units
Preparation for Professional Practice - Preceptorship
Prerequisites: NS M04A/M04AL
Class Hours: 24 lecture, 120 clinical total
Presents principles of total patient care, leadership and professionalism
to ease the transition from student to staff nurse. Focuses on legal and
ethical issues, professional organizations, reality shock and current is-
Sues confronting nurses. Provides participation as a nursing team leader
and/or primary nurse in acute care facility in relationship with a Regis-
tered Nurse. Fulfills the General Education health requirement for A.S.
degree in nursing. Applies to Associate Degree. Transfer credit: CSU

NS M11A -- 0.5 Unit
Nursing Skills Laboratory
Prerequisite: None
Class Hours: 3 lab as arranged for 8 weeks
Provides application of theory from NS M01A through simulated clini-
cal experience, computer-assisted instruction, audio-visual aids, case study
discussions, and individualized instruction. Open lab structure allows
individually arranged lab hours. May be taken three (3) times for credit.
Applies to Associate Degree. Transfer credit: CSU

NS M11B -- 0.5 Unit
Nursing Skills Laboratory
Prerequisite: None
Class Hours: 3 lab as arranged for 8 weeks
Provides application of theory from NS M01B through simulated clini-
cal experience, computer-assisted instruction, audio-visual aids, case study
discussions, and individualized instruction. Open lab structure allows
individually arranged lab hours. May be taken three (3) times for credit.
Applies to Associate Degree. Transfer credit: CSU

NS M12A -- 0.5 Unit
Nursing Skills Laboratory
Prerequisite: None
Class Hours: 3 lab as arranged for 8 weeks
Provides application of theory from NS M02A through simulated clini-
cal experience, computer-assisted instruction, audio-visual aids, case study
discussions, and individualized instruction. Open lab structure allows
individually arranged lab hours. May be taken three (3) times for credit.
Applies to Associate Degree. Transfer credit: CSU

NS M12B -- 0.5 Unit
Nursing Skills Laboratory
Prerequisite: None
Class Hours: 3 lab as arranged for 8 weeks
Provides application of theory from NS M02B through simulated clini-
cal experience, computer-assisted instruction, audio-visual aids, case study
discussions, and individualized instruction. Open lab structure allows
individually arranged lab hours. May be taken three (3) times for credit.
Applies to Associate Degree. Transfer credit: CSU

NS M13A -- 0.5 Unit
Nursing Skills Laboratory
Prerequisites: NS M02B/M02BL
Class Hours: 3 lab for 8 weeks
Provides practical application of theory from NS M03A through simu-
lated clinical experiences. Focuses on Intravenous Therapy, including
IVBP administration. Includes test taking, critical thinking, and com-
munication skills as well as hands-on exposure to computers. May be
taken three (3) times for credit. Applies to Associate Degree. Transfer
credit: CSU
NS M13B -- 0.5 Unit
Nursing Skills Laboratory
Prerequisites: NS M02B/M02BL.
Class Hours: 3 lab for 8 weeks
Provides practical application of theory from NS M03B through simulated clinical experiences in a beginning Psychiatric/Gerontological/Community Nursing lab. May be taken three (3) times for credit. Applies to Associate Degree. Transfer credit: CSU.

NS M14A -- 0.5 Unit
Nursing Skills Laboratory
Prerequisite: None
Class Hours: 3 lab as arranged for 8 weeks
Provides application of theory from NS M04A through simulated clinical experience, computer-assisted instruction, audio-visual aids, case-study discussions, and individualized instruction. On-lab structure allows individually arranged lab hours. May be taken three (3) times for credit. Applies to Associate Degree. Transfer credit: CSU.

NS M22A/B -- 0.5 to 3 Units Each
Independent Studies in Nursing
Prerequisites: A previous course in Nursing Science
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of nursing through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

NS M49 -- 4 Units
Nursing Practicum
Prerequisites: Successful completion of second semester of accredited Nursing Program; meeting all hospital requirements; written verification of skills proficiency.
Class Hours: 40 work experience hours for 8 weeks
Eight-week Summer Intensive course. Provides intermediate nursing student a paid practicum cooperatively planned by employing agency and nursing faculty. Focuses on realistic work experience in concentrated time period. Includes class discussion of issues related to practicum. May be taken two (2) times for credit. Only offered credit/no-credit. Applies to Associate Degree. Transfer Credit: CSU.

NS M50A -- 4 Units
Graduate Nurse Internship I
Prerequisites: Documented NCLEX completion or RN license; certification of 5 successful IV procedures; current CPR-C and malpractice insurance; meeting all clinical facility requirements.
Class Hours: 40 hours per 8 weeks
Approved for continuing education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours.
Eight-week paid internship, cooperatively planned by employing agency and nursing faculty. Interns selected through application process. Provides new graduate supported transition to realistic patient assignment. Offers clinical orientation and review of issues related to work setting, including legal liability, risk management, and physical assessment. Contact Health Sciences Department for more information. Applies to Associate Degree. Transfer credit: CSU.

NS M50B -- 4 Units
Graduate Nurse Internship II
Prerequisites: NS M50A; Documented NCLEX completion or RN license; certification of 5 successful IV procedures; current CPR-C and malpractice insurance; meeting all clinical facility requirements.
Class Hours: 40 hours per 8 weeks
Second 8-week paid internship, cooperatively planned by employing agency and nursing faculty. Interns selected through application process. Provides new graduate assistance in leadership role and practice of more complex skills. Offers review of issues related to work setting, emphasizing leadership and management skills, phlebotomy, 12 lead EKG, computer documentation, communication and conflict resolution, health care economics/trends, expanding role of the nurse, clinical pathways/discharge planning, advanced assessment, risk management, sexual harassment, physician relationship, age related assessment, violent behavior in the workplace, and peer review. Contact Health Sciences Department for more information. Applies to Associate Degree. Transfer credit: CSU.

NS M51 -- 3 units
Home Health Nursing
Prerequisite: Registered Nurse License
Class Hours: 3 lecture, 72 clinical total lab for 8 weeks
Approved for continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Assists Registered Nurse to successful transition into Home Health Nursing. Addresses challenges of home care setting through classroom and clinical experiences. Provides Registered Nurse preceptor from selected home health agency as clinical mentor. Clinical days/times arranged between student and preceptor. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU.

NS M60A-Z -- 1 to 3 Units Each
Topics in Nursing Science
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes. Applies to Associate Degree.

NS M78 -- 4 Units
Introduction to Operating Room Nursing
Prerequisites: Registered Nurse (CA license) or NS M02A/M02AL and NS M02B/M02BL
Approved for continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Class Hours: 6 lecture, 8 lab for 8 weeks
Designed for Registered Nurse and second-year nursing student. Introduces scrub and circulating roles of OR Nurse, focusing on preoperative client. Combines lecture and lab practice through a clinical preceptorship. May be taken two (2) times for credit. Only offered credit/no-credit. Applies to Associate Degree. Transfer Credit: CSU.

NS M79 -- 4 Units
Intermediate Operating Room Nursing
Prerequisite: NS M78
Class Hours: 3 lecture, 16 lab for 8 weeks
Provides basic competencies in perioperative nursing in both scrub and circulation roles. Focuses on surgical specialties, including general, gynecology, neurology, orthopedic, urology, and vascular. Includes use of laparoscopy, laser and other complex surgical equipment. Emphasizes preoperative assessment and planning, intraoperative implementation and postoperative evaluation. Applies to Associate Degree. Transfer Credit: CSU.
NS M89A-Z -- 0.5 to 3 Units Each
Institutes in Nursing Science
Prerequisites: Admission to ADN Program, Registered Nurse, Licensed Vocational Nurse, Psychiatric Technician
Class Hours: As arranged
Series of special lectures and discussions on selected topics of interest in nursing science. Provided as needed. Only offered credit/ no-credit. Applies to Associate Degree.

Radiologic Technology Courses

RADT M01A -- 3 Units
Fundamentals of Radiographic Practice I
Prerequisites: RADT M10/M10L
Corequisites: RADT M01AL, RADT M01B, RADT M11
Class Hours: 3 lecture
Focuses on routine radiographic positioning and procedures of the cardiovascular system, the bone thorax, the abdominal cavity, upper extremities, lower extremities and related joints. Includes radiographic film critique for technical and positioning errors. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M01AL -- 5 Units
Fundamentals Clinical Lab I
Prerequisites: RADT M10/M10L
Corequisites: RADT M01A, RADT M01B, RADT M11
Class Hours: 16 lab
Provides practical application of radiographic theory and skills in x-ray department of pre-assigned clinical affiliate. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M01B -- 3 Units
Principles of Radiation Interaction and Radiographic Technique I
Prerequisites: RADT M10/M10L
Corequisites: RADT M01A/M01AL, RADT M11
Class Hours: 3 lecture
Introduces 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. Applies to Associate Degree. Transfer credit: CSU

RADT M02A -- 3 Units
Fundamentals of Radiographic Practice II
Prerequisites: RADT M01A/M01AL and RADT M01B
Corequisites: RADT M02AL, RADT M02B, RADT M12
Class Hours: 3 lecture
Focuses on radiographic procedure and positioning information of the complete spinal column as well as the contrast studies of the urinary and gastrointestinal tracts. Includes special attention to invasive vascular procedures of these two tracts as well. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M02AL -- 5 Units
Fundamentals Clinical Lab II
Prerequisites: RADT M01A/M01AL and RADT M01B
Corequisites: RADT M02A, RADT M02B, RADT M12
Class Hours: 16 lab
Provides practical application theory and skills in x-ray department of pre-assigned clinical affiliate. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M02B -- 3 Units
Principles of Radiation Protection, Radiobiology and Radiographic Technique II
Prerequisites: RADT M01A/M01AL and RADT M01B
Corequisites: RADT M02A/M02AL, RADT M12
Class Hours: 3 lecture
Introduces basic principles of radiation protection and radiobiology. Includes problem solving, quality assurance, transformers and rectification. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M03A -- 2 Units
Intermediate Radiographic Practice
Prerequisites: RADT M02A/M02AL, RADT M02B and RADT M49
Corequisites: RADT M03AL, RADT M03B, RADT M13
Class Hours: 2 lecture
Introduces intermediate radiographic positioning, focusing first on detailed radiography of the cranium and facial bone area. Then reviews cerebral angiography, mammography, lymphangiography, and cine/cardi-angiography. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M03AL -- 8 Units
Intermediate Clinical Lab
Prerequisites: RADT M02A/M02AL, RADT M02B and RADT M49
Corequisites: RADT M03A, RADT M03B and RADT M13
Class Hours: 24 lab
Provides practical application of intermediate theory and skills in x-ray department of pre-assigned clinical affiliate. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M03B -- 3 Units
Radiographic Pathology
Prerequisites: RADT M02A/M02AL, RADT M02B and RADT M49
Corequisites: RADT M03A/M03AL and RADT M13
Class Hours: 3 lecture
Introduces advanced radiography for various types of disease processes. Incorporates previous clinical experience with new information as base for further clinical practice. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M04A -- 3 Units
Advanced Radiographic Practice
Prerequisites: RADT M03A/M03AL and RADT M03B
Corequisites: RADT M04AL and RADT M14
Class Hours: 3 lecture
Introduces advanced imaging specializations, including last segment of invasive studies, especially in heart/vascular area. May be taken two (2) times for credit. Fulfils the General Education Health Requirement for A.S. Degree in Radiologic Technology. Applies to Associate Degree. Transfer credit: CSU

RADT M04AL -- 8 Units
Advanced Clinical Laboratory
Prerequisites: RADT M03A/M03AL and RADT M03B
Corequisites: RADT M04A and RADT M14
Class Hours: 24 lab
Introduces advanced clinical practice coordinated with rotation in computer tomography, magnetic resonance, ultrasound and special procedures on an observational basis. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M05 -- Interventional Imaging

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RADT M10 — 1 Unit  
Introduction to Radiologic Technology  
Prerequisites: Admission to the Moorpark College Radiography Program, ANPH M01 and PHISO M05/M05L  
Corequisite: RADT M10L and HS M16  
Class Hours: 6 lecture for 3 weeks  
Introduces entry-level information to begin clinical practice to diverse client population in radiography department. Emphasizes radiation protection, equipment manipulation and safety, and darkroom processing. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M10L — 1.5 Units  
Introduction to Radiologic Technology Skills Lab  
Prerequisites: Admission to the Moorpark College Radiography Program; ANPH M01 and PHISO M05/M05L  
Corequisite: RADT M10 and HS M16  
Class Hours: 4 lab for first 3 weeks, 30 lab for last 2 weeks in Radiology Department  
Provides instruction and practice in darkroom procedures, equipment manipulation, basic patient body positions, and radiation protection procedure in campus skills lab. Concludes with 60 hours of clinical practicum orientation in hospital setting during last two weeks. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M11 — 1 Unit  
Radiography Skills Lab I  
Prerequisite: RADT M10  
Corequisites: RADT M01A/M01AL and RADT M01B  
Class Hours: 3 lab  
Provides practical application of theory from RADT M01A through simulated clinical experiences in a radiography skills lab. Includes positioning “mock patient” and making actual radiographs with x-ray phantom. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M12 — 1 Unit  
Radiologic Technology Skills Lab II  
Prerequisite: RADT M11  
Corequisites: RADT M02A/M02AL and RADT M02B  
Class Hours: 3 lab  
Provides practical application of theory from RADT M02A through simulated experiences in a radiography skills lab. Includes positioning “mock patient” and making actual radiographs with x-ray phantom. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M13 — 1 Unit  
Radiography Skills Lab III  
Prerequisite: RADT M12  
Corequisites: RADT M03A/M03AL and RADT M03B  
Class Hours: 3 lab  
Provides practical application of theory from RADT M03A through simulated experiences in a radiography skills lab. Includes positioning “mock patient” and making actual radiographs with x-ray phantom. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M14 — 1 Unit  
Radiographic Film Critique Skills Lab  
Prerequisite: RADT M13  
Corequisites: RADT M04A/M04AL  
Class Hours: 3 lab  
Provides clinical film critique to integrate clinical practice and classroom education. Evaluates technical errors on radiographs and reviews strategies for avoiding future errors. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

RADT M15 — 1 Unit  
Venipuncture for Diagnostic Imaging  
Prerequisite: Certified Radiologic Technologist or RADT M02A  
Class Hours: 12 total lecture, 12 total lab for 3 weeks  
Provides practice of basic venipuncture techniques in upper extremity for the sole administration of contrast materials. Successfully completing course and then performing 10 venipunctures at clinical site under direct supervision of physician complies with state regulations for earning certification to perform venipuncture. Applies to Associate Degree.

RADT M22A/B — 1 to 3 Units Each  
Independent Studies in Radiography  
Prerequisite: A previous course in Radiologic Technology  
Class Hours: 1 to 3 as arranged  
Allows an independent project (approved by instructor and dean) to expand knowledge of radiologic technology through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU

RADT M49 — 4.5 Units  
Radiographic Practicum  
Prerequisites: RADT M02A/M02AL and RADT M02B  
Class Hours: 40 work experience hours for 9 weeks  
Nine-week Summer Intersession course. Provides clinical experience in a pre-assigned clinical affiliate. Focuses on improvement of clinical skills. Requires completion of all specified radiographic examinations. Only offered credit/no-credit. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU

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

Most careers require bachelors or graduate degree.  
Translator, Diplomatic Office, Tutor, Editor, Foreign-Exchange Trader, Foreign Clerk, Foreign Service Officer

Dean

Rene Rodrigues, Phone (805) 378-1404

Faculty

Part Time Faculty  
Margaret Lish

Counselor  
Ofelia Romero-Motlagh
Hebrew Courses

HEB M01 -- 4 Units
Elementary Hebrew I
Prerequisite: None
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours. Introduces Hebrew language, culture, history and people, emphasizing speaking, understanding, reading and writing skills. Applies to Associate Degree. Transfer credit: CSU; UC

HEB M02 -- 4 Units
Elementary Hebrew II
Prerequisite: HEB M01
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours. Further explores Hebrew language and culture, emphasizing people and history as well as speaking and writing proficiency. Applies to Associate Degree. Transfer credit: CSU; UC pending.

HEB M31A -- 3 Units
Beginning Conversational Hebrew
Prerequisite: None
Class Hours: 3 lecture
Emphasizes vocabulary essentials, conversational patterns and pronunciation, including proficiency in practical aspects of using the language (Ulpam). Requires readings on history and customs of modern Israel. May be taken two (2) times for credit. Applies to Associate Degree.

HEB M80 -- 1 to 4 Units
Internship in Hebrew
Prerequisite: Completion of or concurrent enrollment in one course in the discipline
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC, credit limitations.

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

Most careers require bachelor's or graduate degree.
Lobbyist, Historian, Politician, Law Clerk, Diplomat, Publicist, Advertising, Journalist, Editor, Archivist, Program Development, Library Reference Worker, Communication Specialist, Management Trainee, Researcher, Museum Cataloger, Marketing Researcher, Pollster, Writer -- Fiction and Non-Fiction

Dean

Al Nordquist, Phone (805) 378-1445

Faculty

Full-Time
Daniel Brown, Nenagh Brown, Cecile Copsey, Gerald Fecht, Joseph Gonzalez, Ranford Hopkins, Tomás Sanchez

Part-Time
Susan Bennion, Scott Cameron, Rene Fraser, Igor Kotler, Bruce Loyd, James Morrison, John Pendleton, Leslie Smithers, Nan Yarnell

Counselor
Mike Johnson

History Courses

HIST M01A -- 3 Units
An Introduction to Western Civilization
Prerequisite: None
Class Hours: 3 lecture
Introduces important events and developments in Western civilization from prehistory through the sixteenth century. Focuses on ideas, institutions, and contributions. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: HIST 2; HIST SEQ A (HIST M01A + M01B).

HIST M01B -- 3 Units
An Introduction to Western Civilization
Prerequisite: None
Class Hours: 3 lecture
Introduces important events and developments in Western civilization from the seventeenth century to modern times. Focuses on ideas and institutions. (HIST M01A not prerequisite). Applies to Associate Degree. Transfer credit: CSU; UC. CAN: HIST 4; HIST SEQ A (HIST M01A + M01B).

HIST M02 -- 3 Units
From Freedom to Civil Rights
Prerequisite: None
Class Hours: 3 lecture
Surveys the efforts of African Americans in the 20th century to gain equal political, social, and economic opportunity. Emphasizes the movement for civil rights, including its radicalization in the late 1960s. Includes evolution of the African American community, the beginnings of Black cultural nationalism and the contributions of African Americans to the development of the United States. Transfer credit: CSU; UC

HIST M03 -- 3 Units
African American History
Prerequisite: None
Class Hours: 3 lecture
Analyzes history of the African American experience from the Atlantic slave trade (16th century) to the present. Focuses on the political, social and economic trials and contributions of African Americans in US development. Applies to Associate Degree. Transfer credit: CSU; UC

HIST M04 -- 3 Units
History of the Southwest
Prerequisite: None
Class Hours: 3 lecture
Introduces history of the Chicano (pre-Columbian to present), emphasizing the Mexican settlement of the American Southwest as well as the development and contributions of the Chicano to that area. (Same course as CHIST M04). Applies to Associate Degree. Transfer credit: CSU; UC
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Title</th>
<th>Prerequisite</th>
<th>Credit Options</th>
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<tbody>
<tr>
<td>HIST M05</td>
<td>3</td>
<td>United States History</td>
<td>None</td>
<td>CSU; UC</td>
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<tr>
<td>HIST M06</td>
<td>3</td>
<td>History of the American Indian</td>
<td>None</td>
<td>CSU; UC</td>
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<td>HIST M07A</td>
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<td>Social and Political History of the United States</td>
<td>None</td>
<td>CSU; UC</td>
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<td>HIST M07B</td>
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<td>Social and Political History of the United States</td>
<td>None</td>
<td>CSU; UC</td>
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<td>HIST M08</td>
<td>3</td>
<td>History of California</td>
<td>None</td>
<td>CSU; UC</td>
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<td>HIST M09</td>
<td>3</td>
<td>Latin American History</td>
<td>None</td>
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<tr>
<td>HIST M10</td>
<td>3</td>
<td>African History</td>
<td>None</td>
<td>CSU; UC</td>
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<tr>
<td>HIST M12</td>
<td>3</td>
<td>History of American Women</td>
<td>None</td>
<td>CSU; UC</td>
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<tr>
<td>HIST M14</td>
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<td>Ethnicity and Gender in American History</td>
<td>None</td>
<td>CSU; UC</td>
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<tr>
<td>HIST M15</td>
<td>3</td>
<td>Asian Civilization: The Rise of Eastern Civilization</td>
<td>None</td>
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<td>HIST M16</td>
<td>3</td>
<td>Asia in the Modern World</td>
<td>None</td>
<td>CSU; UC</td>
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<td>HIST M20A</td>
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<td>An Introduction to World History (to the 17th century)</td>
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<td>CSU; UC</td>
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<td>HIST M20B</td>
<td>3</td>
<td>An Introduction to World History (from the 17th century)</td>
<td>None</td>
<td>CSU; UC</td>
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</table>
HIST M22A/B -- 0.5 to 3 Units Each
Independent Studies in History
Prerequisite: A previous course in History
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of history through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M60A-Z -- 1 to 3 Units Each
Topics in History
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

HIST M60C -- 3 Units
World War II - The World at War
Prerequisite: A previous course in History
Class Hours: 3 lecture
Analyzes World War II as the most cataclysmic and important event in our time, noting its continuing effect on contemporary society. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M60D -- 3 Units
World War I - The Great War
Prerequisite: A previous course in History
Class Hours: 3 lecture
Analyzes World War I, still regarded as "The Great War" by Europeans, noting its significance as the catalyst for the rest of the 20th century. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M60E -- 3 Units
Modern England
Prerequisite: A previous course in History
Class Hours: 3 lecture
Examines England from its age of greatness to its more recent times of decline. Emphasizes Victorian England, industrial revolution, World Wars, welfare state, and Anglo-American partnership. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M60F -- 3 Units
The World Since 1945
Prerequisite: A previous course in History
Class Hours: 3 lecture
Expands review of Western civilization beyond World War II, emphasizing individuals, events, contributions and relationships. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M60G -- 3 Units
Modern Germany
Prerequisite: A previous course in History
Class Hours: 3 lecture
Introduces political and cultural history of Germany during the last 100 years, emphasizing 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. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M60H -- 3 Units
History of the Jewish People
Prerequisite: None
Class Hours: 3 lecture
Traces great ages and ideas of the Jewish people, emphasizing the character and nature of contemporary Jewish experience. Reviews time, depth and geographical span of Jewish history and the significance of moving through many cultures and lands. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M60R -- 3 Units
Modern Russia
Prerequisite: None
Class Hours: 3 lecture
Introduces political and cultural history of Russia in the 20th century. Reviews World War I, Lenin and the Communist Revolution of 1917, Stalin's domestic and foreign policies, World War II, the Cold War, and present East-West relations. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M60S -- 3 Units
Modern Jewish History
Prerequisite: None
Class Hours: 3 lecture
Reviews the Jewish people in modern Western civilization, including experiences and treatment within various countries, movements within and between countries, rise of anti-Semitism in Russia, impact of two World Wars, the Holocaust, and assimilation and survival of contemporary Jewry. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M60T -- 3 Units
Historic Site Evaluation
Prerequisite: A previous or concurrent course in History
Class Hours: 3 lecture
Introduces methodology of historic site evaluation and interpretation, including on-site evaluation of federal, state, and local historic sites, buildings, museums and parks. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M60V -- 3 Units
The Vietnam War
Prerequisite: None
Class Hours: 3 lecture
Examines circumstances leading to the American involvement in Vietnam, the war itself, and the resulting consequences. Uses literature and film to explore historic, psychological and pop-cultural perspectives. (Same course as HUM M60V and PSY M60V). Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HIST M80 -- 1 to 4 Units
Internship in History
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Seminars and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (909) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; credit limitations.
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.

Dean

Sid Adler, Phone (805) 378-1443

Faculty

Full-Time
John Davie, Hugo Eckback, Judy Farrell, Gerald Ficht, Carole Ginet, Anne Kaischner, Linda Moore

Counselors
Don Henderson, Mary Martin

Humanities Courses

HUM M01 -- 6 Units
The Individual and Society
Prerequisite: None
Class Hours: 6 lecture
Team-taught interdisciplinary course. Analyzes history and social issues through accomplishments of people who have shaped civilization and its institutions. Explores individual and collective responsibility to preserve and improve society. Emphasizes use and improvement of writing skills. Applies to Associate Degree. Transfer credit: CSU; UC

HUM M02 -- 6 Units
The Individual and the Arts
Prerequisite: None
Class Hours: 6 lecture
Team-taught interdisciplinary course. Examines nature of creativity through an analysis of major art forms and of the interrelationships of art, artists and society. Develops awareness and appreciation for diversity among people and the arts. Emphasizes use and improvement of writing skills. Applies to Associate Degree. Transfer credit: CSU

HUM M03 -- 3 Units
History of Cinema I
Prerequisite: None
Class Hours: 3 lecture
Introduces historical and critical survey of world cinema from its beginnings to WW II. Applies to Associate Degree. Transfer credit: CSU; UC

HUM M04 -- 3 Units
History of Cinema II
Prerequisite: None
Class Hours: 3 lecture
Introduces historical and critical survey of world cinema from WW II to the present. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with HUM M06

HUM M05 -- 3 Units
Contemporary Foreign Film
Prerequisite: None
Class Hours: 3 lecture
Introduces contemporary foreign cinema, focusing on work of important directors and their varying production systems. Reviews genres, themes, and styles of various national cinemas. Applies to Associate Degree. Transfer credit: CSU; UC

HUM M06 -- 3 Units
Contemporary Film
Prerequisite: None
Class Hours: 3 lecture
Analyzes works of contemporary American filmmakers, examining special themes, filming techniques and notable genres, including comedy, epic and psychological drama. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with HUM M04

HUM M10A -- 3 Units
Ethics, Culture and the Arts: The Roots of Humanities
Prerequisite: None
Class Hours: 3 lecture
Introduces human cultural heritage from the earliest times to approximately 1000, emphasizing major ideas of several periods of western civilization. Examines literature, philosophy, music, painting, and sculpture of each era. Highlights ethical choices and aesthetic responses possible within each period. Applies to Associate Degree. Transfer credit: CSU; UC

HUM M10B -- 3 Units
Ethics, Culture and the Arts: Humanities and the Modern World
Prerequisite: None
Class Hours: 3 lecture
Introduces human cultural heritage from 1000 to the present, emphasizing major ideas of several periods of western civilization from the Renaissance to the modern world. Examines literature, philosophy, music, painting, architecture, and sculpture of each era. Highlights ethical choices and aesthetic responses possible within each period. Applies to Associate Degree. Transfer credit: CSU; UC

HUM M12 -- 3 Units
Spanish Civilization
Prerequisite: None
Class Hours: 3 lecture
Introduces history, culture, and civilization of Spain through a review of major events and landmarks. Emphasizes 20th century Spanish politics, culture, and society, focusing on contemporary developments reflected in literature, art, film, and music. (Same course as SPAN M12). Applies to Associate Degree. Transfer credit: CSU; UC pending

HUM M18 -- 3 Units
Images of Women in Film
Prerequisite: None
Class Hours: 3 lecture
Introduces psychological survey of stereotypes of women seen through roles, myths and special personalities in motion pictures. Considers visions of individual filmmakers, audience demands, censorship and cultural movements. Contrasts cinematic image with the actual image of women, exploring the impact of the media on reality. Applies to Associate Degree. Transfer credit: CSU; UC

HUM M19 -- 3 Units
Women in Contemporary Society
Prerequisite: None
Class Hours: 3 lecture
Examines concerns, conflicts and rewards of women as their roles and opportunities change within society. Uses lecture, discussions, films and reading to explore fulfillment of individual potential. Applies to Associate Degree. Transfer credit: CSU; UC
HUM M22A/B -- 1 to 3 Units Each
Independent Studies in Humanities
Prerequisite: A previous course in Humanities
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of humanities through research, lab work or field trips.
Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HUM M42 -- 3 Units
Business and Society
Prerequisite: None
Class Hours: 3 lecture
Explores issues such as corporate responsibility, career/job satisfaction, workplace ethics, technological change and environmental health concerns through the analysis of modern literature, art and film. (Same course as BUS M42). Applies to Associate Degree. Transfer credit: CSU

HUM M60A-Z -- 1 to 6 Units Each
Topics in the Humanities
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.
Developed topics include:

HUM M60A -- 1.5 Units
The Reel View: The Fifties
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Studies content and form of cinema of the fifties, comparing "reel" images with societal realities and values.

HUM M60B -- 1.5 Units
The Reel View: The Sixties
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Studies content and form of cinema of the sixties, comparing "reel" images with societal realities and values. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HUM M60E -- 3 Units
America in Perspective
Prerequisite: None
Class Hours: 3 lecture
Explores economic, political, diplomatic/military, and social developments shaping the United States since 1876. Provides topical rather than chronological approach to history. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HUM M60I -- 1.5 Units
The Reel View of Real Life (The Documentary)
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Analyzes selected documentary films, comparing content and styles of individual filmmakers. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HUM M60J -- 3 Units
Humanities in the Arts
Prerequisite: None
Class Hours: 3 lecture
Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HUM M60V -- 3 Units
The Vietnam War
Prerequisite: None
Class Hours: 3 lecture
Examines circumstances leading to the American involvement in Vietnam, the war itself, and the resulting consequences. Uses literature and film to explore historic, psychological and pop-cultural perspectives. (Same course as HIST M60V and PST M60V). Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

HUM M80 -- 1 to 4 Units
Internship in Humanities
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 578-1400, ext. 16686. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

INTERIOR DESIGN

The Interior Design Program has been developed to prepare students for numerous careers in Interior Design and related areas including Residential and Commercial design. Students will receive training that will equip them with the necessary tools to be used in various aspects of the Design field.

Career Opportunities

Residential Designer, Commercial Designer, Product Designer, Window Treatment Designer, Model Home Designer, Textile Designer, Customer Service Representative, Home Furnishings Editor and/or Writer, Home Fashions Coordinator, Merchandise Manager, Home Economist, Construction Executive, Health Care Facility Designer, Showroom Manager, Designer for the Disabled, Color Consultant, Furniture Buyer, Lighting Consultant, Display Specialist, Environmental Designer, Wall Covering Designer, Space Planner, Set Designer, Wholesale Buyer, Instructor, Researcher, Museum Curator, Urban Planner, Land Planner, City Planner

Dean
Judith Gerhart, Phone (805) 378-1402

Faculty

Part-Time
Sharon Anderson, Janis Gerry, Toni Johnston

Counselors
Denice Avila, Ofelia Romero-Motlagh

Interior Design Degree (Occupational)

Associate in Science Degree

The Interior Design program has been developed to prepare students for numerous careers in Residential and Commercial Interior Design. Students will receive training necessary to prepare for the work force. Students can prepare for careers, such as those listed above.
Required Courses: | Units
---|---
ART M02 | Art Appreciation | 3
ART M04A | Color and Design | 3
BUS M32 | Small Business Management | 3
DRFT M03A | Architectural Drafting I | 3
ID M05 | Beginning Interior Design | 3
ID M06 | Materials and Installations | 3
ID M07 | Space Planning | 3
ID M08 | Advanced Interior Design | 3
ID M09 | Interior Design Graphics and Presentation | 3
ID M31 | Textiles | 3
General Education Courses | 24
TOTAL required units in major | 54-24 (GE) = 30

Recommended Courses: BUS M35; DRFT M02A

Suggested Course Sequence:

First Semester
ART M02 | 3
DRFT M03A | 3
ID M05 | 3
ID M06 | 3
General Education | 3
Total | 15

Third Semester
BUS M32 | 3
ID M07 | 3
General Education | 6
Total | 12

Second Semester
ART M04A | 3
ID M31 | 3
General Education | 9
Total | 15

Fourth Semester
ID M08 | 3
ID M09 | 3
General Education | 6
Total | 12

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

Interior Design Degree

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 design assistants, interior designers, furniture buyers, and sales representatives for retail organizations.

Required Courses: | Units
---|---
ART M02 | Art Appreciation | 3
ART M04A | Color and Design | 3
BUS M32 | Small Business Management | 3
DRFT M03A | Architectural Drafting I | 3
ID M05 | Beginning Interior Design | 3
ID M06 | Materials and Installations | 3
ID M07 | Space Planning | 3
ID M08 | Advanced Interior Design | 3
ID M09 | Interior Design Graphics and Presentation | 3
ID M31 | Textiles | 3
TOTAL minimum units required | 30

Recommended Courses: BUS M35; DRFT M02A

Interior Design Certificate

Certificate of Completion
The Interior Design program provides certificate options in the areas of Space Planning, Kitchen/Bath Design, Health Occupations and Decorative Textiles, allowing specialization within this growing field. Developing a portfolio for work with clients, program graduates are ready to enter the workforce as competent, resourceful designers.

Choose one of the options noted below:

Space Planning Option
Fall Semester
ID M05 | Beginning Interior Design | 3
DRFT M03A | Architectural Drafting | 3
ID M60C | Lighting | 1.5
ID M60G | Barrier Free Design | 1.5
Spring Semester
ID M07 | Space Planning | 3
DRFT M02A | Computer Aided Drafting I | 3
ID M60H | Residential Design | 1.5
ID M60I | Commercial Design | 1.5
TOTAL minimum units required | 18

Kitchen/Bath Design Option
Fall Semester
ID M05 | Beginning Interior Design | 3
DRFT M03A | Architectural Drafting I | 3
ID M60C | Lighting | 1.5
ID M60G | Barrier Free Design | 1.5
Spring Semester
ID M06 | Materials and Installation | 3
ID M07 | Space Planning | 3
ID M60J | Kitchen/Bath Design | 1.5
TOTAL minimum units required | 16.5

Health Care Design Option
Fall Semester
ID M05 | Beginning Design | 3
DRFT M03A | Architectural Drafting I | 3
ID M60C | Lighting | 1.5
ID M60G | Barrier Free Design | 1.5
Spring Semester
ID M06 | Materials & Installation | 3
ID M31 | Textiles | 3
ID M60D | Feng Shui | 1.5
ID M60K | Designing for Health Care Industry | 1.5
TOTAL minimum units required | 18

Decorative Arts Option
Fall Semester
ID M05 | Beginning Interior Design | 3
ID M31 | Textiles | 3
ID M60B | Faux Finishes | 1.5
Spring Semester
ID M60A | Decorative Textiles | 1.5
ID M60E | Window Treatments | 1.5
ID M60F | Designing with Accessories | 1.5
TOTAL minimum units required | 12.0
Interior Design Courses

ID M05 -- 3 Units
Beginning Interior Design
Prerequisite: None
Class Hours: 3 lecture
Introduces principles and elements of design and color applied to residential buildings including materials, organization, and arrangement related to living needs. Requires field trips. Reviews employment opportunities. Applies to Associate Degree. Transfer credit: CSU

ID M06 -- 3 Units
Materials and Installations
Prerequisite: None
Class Hours: 3 lecture
Introduces materials and installation processes of residential and commercial design. Emphasizes procurement, pricing, and manufacturer’s specifications. Applies to Associate Degree. Transfer credit: CSU

ID M07 -- 3 Units
Space Planning
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces management of space related to three-dimensional functional adequacy, task management, human behavior, social interaction, and traffic and workflow. Includes technical consideration such as lighting and power, storage, noise control, computers and code requirements, and barrier-free design. Requires practical lab projects. Applies to Associate Degree. Transfer credit: CSU

ID M08 -- 3 Units
Advanced Interior Design
Prerequisite: ID 5
Class Hours: 3 lecture
Introduces historical periods/styles utilized in Interior Design and applied to contemporary living. Focuses on advanced color theory, fabric treatments and materials. Applies to Associate Degree. Transfer credit: CSU

ID M09 -- 3 Units
Interior Design Graphics and Presentation
Prerequisites: DRFT M31 and ID M05
Class Hours: 2 lecture, 3 lab
Introduces standard materials used for residential/commercial client presentations. Emphasizes portfolio development, verbal presentation skills, exploration of media common to marketplace, and application of business practices. Applies to Associate Degree. Transfer credit: CSU

ID M22A/B -- 1 to 3 Units Each
Independent Studies in Interior Design
Prerequisite: A previous course in Interior Design
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of interior design through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU

ID M31 -- 3 Units
Textiles
Prerequisite: None
Class Hours: 3 lecture
Introduces care of textile fibers, including construction, characteristics, finishes, and uses. Requires development of 25 decorative textile techniques. Applies to Associate Degree. Transfer credit: CSU; UC

ID M32 -- 3 Units
Interior Design Practicum
Prerequisites: Completion of 15 units (C grade or better)
Recommended Preparation: concurrent enrollment in ID M9
Class Hours: 1 lecture, 10 lab
Provides practical work experience in a residential or commercial interior design firm. Requires weekly class sessions and ten hours of work per week under direction of Interior Design Supervisor. Applies to Associate Degree. Transfer credit: CSU

ID M60A-Z -- 0.5 to 3 Units Each
Topics in Interior Design
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester’s Schedule of Classes.

Developed topics include:
ID M60A -- 1.5 Units
Decorative Textiles - Hand Painting on Silk
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Introduces techniques of hand painting on silk for home furnishings, art and accessories. Reviews contemporary decorative textiles, including ethnic textile techniques. Requires class projects. Applies to Associate Degree. Transfer Credit: CSU

ID M60B -- 1.5 Units
Faux Finishes
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Provides hands-on learning, using “Faux Finishing” techniques, including how to simulate wood, marble, stone, brick and fabric. Requires creation of sample boards for all techniques. Applies to Associate Degree. Transfer Credit: CSU

ID M60C -- 1.5 Units
Lighting for Interior Spaces
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Includes lighting basics, illumination requirements, sources of light, symbol requirements for floor plans and lighting as a source of art. Lighting design specifications will be studied. Applies to Associate Degree. Transfer Credit: CSU

ID M60D -- 0.5 Units
Feng Shui
Prerequisite: None
Class Hours: 8 hours
Introduces Feng Shui, traditional Chinese technique that ensures harmony between design and surroundings. Applies to both residential and commercial settings. Requires practical application of Feng Shui guidelines in class projects. Applies to Associate Degree. Transfer Credit: CSU

ID M60E -- 1.5 Units
Window Treatment Design
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Introduces window treatment design, including fabric requirements, window function, hardware requirements, window measuring, and proper window treatment specifications. Emphasizes proper workplace procedure and professional expectations. May be taken two (2) times for credit. Applies to Associate Degree. Transfer Credit: CSU
INTERNETIONS AND WORK EXPERIENCE

In compliance with Title V Cooperative Work Experience Education regulations, the Moorpark College Internship Office offers students two different avenues for receiving credit for on-the-job learning. If the work experience is in your major field of study, the work experience is labeled an Internship. Non-major specific work experience provides the opportunity to explore a possible career path and to receive valuable training in typical on-the-job skills.

Dean
Victoria Bortolussi, Phone (805) 378-1405

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.

Dean
Al Nordquist, Phone (805) 378-1445

Faculty

Counselors
Mary Martin, Ofelia Romero-Motaugh
International Studies Degree

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:

- ANTH M02: Cultural Anthropology ........................................... 3
- ECON M01: Principles of Micro-Economics ............................... 3
- ENGL M31: Masterpieces of World Literature II ......................... 3
- GEOG M03: Geography of World Affairs ................................ 3
- HIST M01B: An Intro to Western Civilization ......................... 3
- or HIST M60F: The World Since 1945 .................................. 3
- POLS M02: Comparative Government ..................................... 3
- POLS M03: American Government and Politics ...................... 3
- POLS M04: 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 a Moorpark College Study Abroad program may be substituted for 3 units.

Area A: Business - Economics
- BUS 30/ECON M30: Intro to Business and Economics ............ 3
- BUS M31: Introduction to Management .................................. 3
- BUS M37: Marketing ......................................................... 3
- ECON M2: Principles of Macro-Economics ......................... 3

Area B: Culture and Politics
- HIST M07B: Social and Political History of the United States .... 3
- HIST M09: Latin American History ...................................... 3
- HIST M10: African History ................................................ 3
- HIST M16: Asia in the Modern World .................................. 3
- HIST M60E: Modern England ............................................. 3
- HIST M60F: The World Since 1945 .................................. 3
- HIST M60G: Modern Germany ........................................... 3
- HIST M60R: Modern Russia ................................................ 3
- PHIL M11: Survey of World Religions: West ......................... 3
- PHIL M12: Survey of World Religions: East ......................... 3
- SOC M01: 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
- ENSC M03: Environment and Human Interactions .................. 4
- ENSC M03: Energy Resources and Conservation .................... 3
- GEOG M03: Our Physical Environment .............................. 3
- GEOG M07: The Human Impact ........................................... 3

TOTAL minimum units required in major area ........................ 30

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

Career Opportunities

Most careers require bachelor's or graduate degree.
Translator, Diplomatic Office, Tutor, Editor, Foreign-Exchange Trader, Foreign Clerk, Foreign Service Officer

Dean
Rene Rodriguez, Phone (805) 378-1404

Faculty

Part-Time
Nicole Kersting, Daniello Marano

Counselor
Ofelia Romero-Motlagh

Italian Courses

ITAL M01 -- 4 Units
Elementary Italian I
Prerequisite: None
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education credit by the California Board of Registered Nursing, provider number 02811 for 60 contact hours.
Introduces Italian language, culture, history and people, emphasizing speaking, understanding, reading and writing skills. Requires individuated work in lab each week. Applies to Associate Degree. Transfer credit: CSU; UC.

ITAL M02 -- 4 Units
Elementary Italian II
Prerequisite: ITAL M01 or 2 years of high school Italian with equivalent fluency
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours.
Further develops proficiency of oral and written forms of Italian. Requires individuated work in lab each week. Applies to Associate Degree. Transfer credit: CSU; UC.

ITAL M03 -- 4 Units
Intermediate Italian I
Prerequisite: ITAL M02
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours.
Reviews grammar basics and expands vocabulary and writing proficiency. Explores culture and civilization through literature. Requires individuated work in lab each week. Applies to Associate Degree. Transfer credit: CSU; UC.

ITAL M22A/B -- 1 to 3 Units Each
Independent Studies in Italian
Prerequisite: A previous course in
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of Italian through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

ITAL M31A -- 3 Units
Beginning Conversational Italian
Prerequisites: None
Provides basic understanding and use of Italian in practical situations, emphasizing elementary grammar and principles of usage for non-native speakers. May be taken two (2) times for credit. Applies to Associate Degree.

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.
ITAL M31B -- 3 Units
Intermediate Conversational Italian
Prerequisite: ITAL M31A
Class Hours: 3 lecture
Expands introduction and use of Italian for non-native speakers, emphasizing intermediate grammar and principles of usage. May be taken two (2) times for credit. Applies to Associate Degree.

ITAL M31C -- 3 Units
Advanced Conversational Italian
Prerequisite: ITAL M31B
Class Hours: 3 lecture
Emphasizes correct oral communication for students with an Italian-speaking background. Requires oral presentation and discussion based on Italian music, art, literature and architecture. Applies to Associate Degree.

ITAL M80 -- 1 to 4 Units
Internship in Italian
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1568. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

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

Most careers require bachelors or graduate degree.
Translator, Diplomatic Office, Tutor, Editor, Foreign-Exchange Trader, Foreign Clerk, Foreign Service Officer

Dean
Rene Rodriguez, Phone (805) 378-1404

Faculty
Part-Time
Naoko Hall, Paul Jonokuchi

Counselor
Ofelia Romero-Motlagh

Japanese Courses

JAPN M01 -- 4 Units
Elementary Japanese I
Prerequisite: None
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours.
Introduces Japanese language, culture, history and people, emphasizing speaking, understanding, reading and writing skills. Requires individualized work in lab each week. JAPN formerly JAPAN. Applies to Associate Degree. Transfer credit: CSU; UC

JAPN M02 -- 4 Units
Elementary Japanese II
Prerequisite: JAPN M01
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours.
Further explores Japanese language and culture, emphasizing people and history as well as speaking and writing proficiency. Requires individualized work in lab each week. JAPN formerly JAPAN. Applies to Associate Degree. Transfer credit: CSU; UC

JAPN M03 -- 4 Units
Intermediate Japanese I
Prerequisite: JAPN M02
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 60 contact hours.
Continues study of grammar, oral and written composition, customs and culture. Includes reading of intermediate-level texts. Requires individualized work in lab each week. JAPN formerly JAPAN. Applies to Associate Degree. Transfer credit: CSU; UC

JAPN M22A/B -- 1 to 3 Units Each
Independent Studies in Japanese
Prerequisite: A previous course in Japanese
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of Japanese through research, lab work or field trips. Includes one-on-one work with instructor. May be for a maximum of 6 units. JAPN formerly JAPAN. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

JAPN M31A -- 3 Units
Beginning Conversational Japanese
Prerequisite: None
Class Hours: 3 lecture
Provides basic understanding and use of Japanese in practical situations, emphasizing elementary grammar and principles of usage for non-native speakers. May be taken two (2) times for credit. JAPN formerly JAPAN. Applies to Associate Degree.

JAPN M31B -- 3 Units
Intermediate Conversational Japanese
Prerequisite: JAPN M31A
Class Hours: 3 lecture
Reviews fundamentals of grammar, structure and vocabulary of Japanese language, emphasizing listening comprehension and oral communication. Gradually introduces the Japanese writing system. Includes review of various aspects of Japanese culture. May be taken two (2) times for credit. JAPN formerly JAPAN. Applies to Associate Degree.

JAPN M80 -- 1 to 4 Units
Internship in Japanese
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1568. May be taken four (4) times for credit. JAPN formerly JAPAN. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.
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, Feature Writer, Copy Editor, Editorial Assistant, Make-up Editor, Photographer, Lay-out Worker, Advertising Assistant, Writer, Publicity Director, Technical Writer, Proofreader, Stringer, Production Assistant

Dean

Sid Adler, Phone (805) 378-1443

Faculty

Full-Time
Bona Dillon, John Grywacz-Gray, Al Miller

Part-Time
Steve Ames, Star Hunter, Chuck Whitten

Counselor
Don Henderson

Journalism Degree (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, layout workers, advertising assistants, and other production related jobs. An internship program in connection with local print media is available.

Required Courses: Units
JOUR M01 Media and Society .................................. 3
JOUR M02 News Reporting and Writing .................. 3
JOUR M03 Advanced News/Feature Writing .............. 3
JOUR M08 Basic Photo-Journalism ......................... 3
JOUR M09 Copy Editing and Make-up ....................... 3
JOUR M10A Newspaper Production ........................ 3
JOUR M12 Broadcast Journalism ............................ 3
JOUR M14 Intro to Public Relations ........................ 3
TOTAL minimum units required in major area ........... 24

Recommended Courses: BUS M38, JOUR M10B, M11A

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

Journalism Courses

JOUR M01 -- 3 Units
Media and Society
Prerequisite: None
Class Hours: 3 lecture
Surveys history and nature of print and electronic media in America, examining social, political and cultural implications. (Same course as RT M01). JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU; UC: CAN; JOUR 4

JOUR M02 -- 3 Units
News Reporting and Writing
Prerequisite: None
Class Hours: 3 lecture
Introduces basic journalistic techniques, concentrating on research, investigation, interviewing, and reporting and writing as well as ethics and basic journalism law. Emphasizes news, feature, sports and persuasive writing for mass media. JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU; UC: CAN; JOUR 2

JOUR M03 -- 3 Units
Advanced News/Feature Writing
Prerequisite: None
Class Hours: 3 lecture
Focuses on writing feature articles used in magazines and newspapers. Emphasizes techniques for gathering material. Provides practical experience through writing for school newspaper. JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU

JOUR M04 -- 3 Units
Magazine Article Writing
Prerequisite: None
Class Hours: 3 lecture
Introduces writing feature articles, reviews, and editorials suitable for magazine publication. Includes editing practice and use of illustrative materials. JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU

JOUR M08 -- 3 Units
Basic Photo-Journalism
Prerequisite: PHOT M01A or suitable portfolio
Class Hours: 2 lecture, 3 lab
Introduces aspects of photography applicable to mass communication, broadcast and print journalism. Concentrates on translating ideas to images for reproduction in magazines and newspapers and as book illustrations. Includes special effects, use of camera and light as creative tools, and basic motion picture techniques. May be taken two (2) times for credit. (Same course as PHOT M08). JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU

JOUR M09 -- 3 Units
Copy Editing and Make-up
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Analyzes structure and effectiveness of written materials. Reviews rewriting, error correction, proofreading, headline writing, news and picture evaluation, and page design. Provides opportunity to work on campus newspaper. JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU

JOUR M10A/B -- 3 Units Each
Newspaper Production
Prerequisite: None
Class Hours: 1 lecture, 6 lab
Covers conception, development, editing, layout and composition of newspapers, emphasizing attractive, effective ways to present written and pictorial matter. Includes review of graphic arts and use of composing and headlining equipment. JOUR M10A may be taken two (2) times for credit. JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU

JOUR M10B -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10C -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10D -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10E -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10F -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10G -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10H -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10I -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10J -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10K -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10L -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10M -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10N -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10O -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10P -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10Q -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10R -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10S -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10T -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10U -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10V -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10W -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10X -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10Y -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units

JOUR M10Z -- Newspaper Editorial Staff
(Formerly Newspaper Staff) 3 units
JOUR M106 -- 2 Units
Photography Lab for Newspaper Production
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Provides practical experience in photo production as support for campus newspaper production. May be taken two (2) times for credit. JOUR formerly JOURN. Applies to Associate Degree.

JOUR M11A -- 3 Units
Magazine Editing
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces analysis, development, composition and layout of magazines or similar publications, emphasizing the coordination of feature stories and related articles with attractive pictorial displays. Also reviews graphic arts as related to magazine production. (Same course as ENGL M47). JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU

JOUR M12 -- 3 Units
Broadcast Journalism
Prerequisite: None
Class Hours: 3 lecture
Provides advanced practice in preparation of radio and television newscasts. Develops interviewing skills. Includes writing original news copy as well as editing and rewriting wire service copy for on-air purposes. Requires use of remote recording equipment. (Same course as RT M12). JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU

JOUR M14 -- 3 Units
Introduction to Public Relations
Prerequisite: None
Class Hours: 3 lecture
Introduces origins of public relations, including key definitions, processes, and audiences. Reviews public relations in businesses, associations, volunteer agencies and educational institutions. Includes how to write, prepare and submit release to video/audio and print media. JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU

JOUR M22A/B -- 1 to 3 Units Each
Independent Studies in Journalism
Prerequisite: A previous course in journalism
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of journalism through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU

JOUR M60A-Z -- 1 to 6 Units Each
Topics in Journalism
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes. JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU, UC.

JOUR M80 -- 1 to 4 Units Each
Internship in Journalism
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. JOUR formerly JOURN. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

LASER/ELECTRO-OPTICS TECHNOLOGY
See courses in Engineering Technology and Physics

LAW ENFORCEMENT
See courses in Criminal Justice

LEARNING SKILLS
A wide range of both special education and learning skills courses are provided for students with specially identified needs.

Dean
Floyd Thionnet, Phone (805) 378-1431

Faculty
Janet Andreise, Sherry D’Attilie, Norma Letinsky, Melanie Masters

Part-Time
Susan Baker, Roger Mortara

Counselors
Rick Cardoni

Adaptive Computer Technology Courses
ACT M01 -- 2 Units
Computer Access Evaluation
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Evaluates each student's needs for special assistive technology required to achieve access to the personal computer. Requires work in a self-paced environment. Only offered credit/no-credit. Does not apply toward a degree.

ACT M02 -- 2 Units
Assistive Keyboarding
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Teaches keyboarding basics to disabled students who must use assistive technologies to access the keyboard or screen and are unable to compete successfully in mainstream typing classes. May be taken two (2) times for credit. Only offered credit/no-credit. Does not apply toward a degree.
Learning Skills

ACT M03A -- 2 Units
Computer Access I - Beginning
Prerequisite: ACT M02
Class Hours: 1 lecture, 3 lab
Provides training in computer access technologies to enhance a disabled student's ability to use microcomputers. Introduces basic concepts of typical word-processing programs (Word, WordStar, Word Perfect, etc.). May be taken two (2) times for credit. Only offered credit/no-credit. Does not apply toward a degree.

ACT M03B -- 2 Units
Computer Access II - Intermediate
Prerequisite: ACT M03A
Class Hours: 1 lecture, 3 lab
Provides hands-on practice using computer access skills. Requires completion of specialized assignments. May be taken two (2) times for credit. Only offered credit/no-credit. Does not apply toward a degree.

ACT M04 -- 2 Units
Introduction to Computers for Disabled Students
Prerequisite: Completion of or concurrent enrollment in ACT M02
Class Hours: 1 lecture, 3 lab
Introduces the personal computer to students with disabilities, covering basic computer terminology and functions, the Windows environment, and word processing. Requires no initial computer experience. May be taken two (2) times for credit. Does not apply toward a degree.

ACT M05 -- 3 Units
Word Processing for Students with Disabilities
Prerequisite: None
Recommended Preparation: ACT M04
Class Hours: 2 lecture; 3 lab
Introduces important elements of word processing using Microsoft Word. Includes how to create, edit and format a document and how to use standard proofreading tools (AutoCorrect, Spell and Grammar Checks and Thesaurus). Also covers using file management tools; setting tabs and margins; creating borders and shading; establishing headers and footers; and using numbers, bullets, tables, outlines and graphics. 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 M01 -- 1.5 Units
Assessment of Learning Skills
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Provides assessment and tutoring of learning disabled students by a specially trained staff. Introduces specialized techniques, materials, texts, and audio-visual equipment to support academic instruction for students with special learning styles. Does not apply toward a degree.

LS M02 -- 3 Units
Basic Writing Skills
Prerequisite: None
Class Hours: 3 lecture
Develops basic writing skills, creative thinking, and intellectual capabilities of students with verified learning disabilities. Covers basic grammar and usage for developing short paragraphs and simple essays. May be taken two (2) times for credit. Does not apply toward a degree.

LS M03 -- 3 Units
Study Skills
Prerequisite: None
Class Hours: 3 lecture
Introduces fundamental principles of study skills. Includes time management, reading and study strategies, memory improvement, test taking, note taking, and writing a term paper. May be taken four (4) times for credit. Does not apply toward a degree.

LS M04 -- 3 Units
Reading and Reasoning
Prerequisite: None
Corequisite: Concurrent enrollment in LS M01-4
Class Hours: 3 lecture
Develops essential reading skills for students with learning disabilities. Includes critical thinking skills, inferential comprehension, problem-solving abilities and vocabulary development. May be taken four (4) times for credit. Does not apply toward a degree.

LS M05 -- 3 Units
Cognitive Retraining
Prerequisite: None
Class Hours: 3 lecture
Offers highly structured cognitive retraining for students with acquired brain injuries emphasizing multi-sensory approaches for receiving, associating and expressing language. May be taken four (4) times for credit. Only offered credit/no-credit. Does not apply toward a degree.

LS M06 -- 3 Units
Techniques of Problem Solving/Language
Prerequisite: None
Class Hours: 3 lecture
Emphasizes creative thinking, problem solving, and enhanced intellectual capabilities for students with learning disabilities. Provides practical applications in the language lab using audio-visual materials. May be taken four (4) times for credit. Does not apply toward a degree.

LS M07 -- 3 Units
Basic Math Skills
Prerequisite: None
Corequisite: Concurrent enrollment in LS M04-7
Class Hours: 3 lecture
Develops arithmetic computation and basic mathematical skills needed for pre-algebra and algebra courses. Provides individualized instruction and pacing according to student needs. May be taken four (4) times for credit. Does not apply toward a degree.

LS M08 -- 3 Units
Spelling Improvement
Prerequisite: None
Class Hours: 3 lecture
Develops spelling efficiency and competence. Provides spelling practice through conversations and written themes. Does not apply toward a degree.

LS M09 -- 3 Units
Personal Development
Prerequisite: None
Class Hours: 3 lecture
Develops small group and personal management skills. Explores issues relevant to the disabled population, such as coping with becoming disabled, building interpersonal relationships, and developing assertiveness and risk taking skills. May be taken four (4) times for credit. Does not apply toward a degree.
Learning Skills

LS M10 -- 3 Units
Vocabulary Building
Prerequisite: None
Class Hours: 3 lecture
Reviews meaning and origin of “common” basic language words. Provides practical applications to improve skills and understanding. Does not apply toward a degree.

LS M12 -- 1 to 3 Units Each
Tutoring Methods
Prerequisite: None
Class Hours: 1 to 3 lecture
Introduces tutors to techniques for addressing special learning problems. May be taken four (4) times for credit. Applies to Associate Degree.

LS M13 -- 3 Units
Strategies for Positive Self Esteem
Prerequisite: None
Class Hours: 3 lecture
Introduces a ten-step model to increase positive self-esteem, including strategies for letting go of past negative experiences, developing appreciation of self and others, and setting goals. Does not apply toward a degree.

LS M14-1 -- 0.5 Unit
Computer-Aided Instruction/Learning Skills
Prerequisite: None
Class Hours: 1.5
Provides opportunity to develop academic skills through the use of computer-based instruction. May be taken four (4) times for credit. Does not apply toward a degree.

LS M14-2 -- 1 Unit
Computer-Aided Instruction/Learning Skills
Prerequisite: None
Class Hours: 3 lab
Provides opportunity to develop academic skills through the use of computer-based instruction. May be taken four (4) times for credit. Does not apply toward a degree.

LS M14-3 -- 1.5 Units
Computer-Aided Instruction/Learning Skills
Prerequisite: None
Class Hours: 4.5 lab
Provides opportunity to develop academic skills through the use of computer-based instruction. May be taken four (4) times for credit. Does not apply toward a degree.

LS M14-4 -- 0.5 Unit
Computer-Aided Instruction/Reading and Reasoning
Prerequisite: None
Class Hours: 1.5 lab
Corequisite: Concurrent enrollment in LS M04
Uses individualized computer-based program to reinforce reading skills. Does not apply toward a degree.

LS M14-7 -- 0.5 Unit
Computer-Aided Instruction/Basic Math Skills
Prerequisite: None
Corequisite: Concurrent enrollment in LS M07
Class Hours: 1.5 lab
Uses individualized computer-based program to reinforce math skills. Does not apply toward a degree.

Liberal Studies

LS M13-B -- 0.5 Unit
Computer-Aided Instruction/Spelling Improvement
Prerequisite: None
Corequisite: Concurrent enrollment in LS M08
Class Hours: 1.5 lab
Uses individualized computer-based program to improve spelling skills. Does not apply toward a degree.

LS M20 -- 0.5 to 1.5 Units
Assessment of Learning Skills/Lab
Prerequisite: None
Class Hours: 1.5 to 4.5 lab as arranged
Open lab for students with learning disabilities. Provides assessment and tutoring by specially trained staff. Emphasizes techniques, materials, texts, and audio-visual equipment to assess skills and to support academic instruction. Focuses on special learning styles. May be taken four (4) times for credit. Only offered credit/no-credit. Does not apply toward a degree.

Liberal Studies

Dean
Sid Adler, Phone (805) 378-1443

Faculty
Counselors
Chuck Brinkman, Mary Martin, Mike Johnson, Ofelia Romero-Morlagh

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 M01A
2. Critical Reasoning: PHIL M05 or M07
3. Speech Communication: SPCH M01 or M07
4. Introduction to Literature: ENGL M01B or M30 or M31
5. Foreign Language: Any intermediate-level (3) foreign language course
6. Mathematics: MATH M10 and MATH M210L after transfer
7. Biology: BIOL M01
8. Physical Science: PHYS M01, M01L
9. World Geography: GEOG M02
10. Roots of European Society & Culture: HIST M01A
11. African, Asian and Latin American Society & Culture: HIST M09 or M10 or M15
12. U.S. History: HIST M03 or M07A
14. California History & Geography: GEOG M10 or HIST M08
15. Philosophy: PHIL M01
16. Ethics, Values, and Religion: PHIL M05 or M11
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. See chart on next page.

Career Opportunities

Most careers require bachelors or graduate degree.

Dean

To be announced, phone (805) 378-1572.

Faculty

Full-Time
Christine Aguilera, Beverly Barker, Alberto Beron, Christine Colo, Kathryn Fink, Keith Hilmer, David Kay, Mary LaBarge, Fred Meyer, Charles Molfar, Diana Nguyen, Mayyad Rahmanan, Deborah Ritchie, Benjamin Rode, Fred Schaal, Robert Stephens, Arthur Szylewicz, Roger Walters, David Weinstein, Grethe Wygant

Part-Time

Counselors
Edna Ingram, Letisha Mai, Danita R. Redd

Mathematics Degree

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 emphasize students' preparation for upper-division course work for the Bachelor of Arts degrees in Mathematics offered by four-year institutions. Since the course work in mathematics is sequential, students must 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 by giving priority to the requirements for a major in mathematics. In addition, earning this degree will be evidence of achievement of technical skills that may be helpful towards seeking immediate employment.

Preparation for the Major:
- Mathematics — two years high school algebra plus trigonometry or MATH M03 and M07 or equivalent.
- Physics — one year high school physics or PHYS M10A or equivalent.
Sequence of Mathematics Courses at Moorpark College

You may follow this sequence of courses to develop proficiency in mathematics.

You may be eligible to begin this sequence with MATH M01, MATH M02, MATH M03, or higher depending on prerequisite course work.

Support course for MATH M09 (May not be offered every semester)

Support course for MATH M01 (May not be offered every semester)

ALL CLASSES BELOW THIS LINE ARE CSU AND UC TRANSFERABLE

Check with your transfer institution to determine which of these courses fulfill your general education and/or major requirements.
Mathematics

Required Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS M10A/M10AL</td>
<td>Intro to Programming with C</td>
<td>4</td>
</tr>
<tr>
<td>MATH M25A</td>
<td>Calculus with Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>MATH M25B</td>
<td>Calculus with Analytic Geometry II</td>
<td>5</td>
</tr>
<tr>
<td>MATH M25C</td>
<td>Calculus with Analytic Geometry III</td>
<td>5</td>
</tr>
<tr>
<td>MATH M31</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH M35</td>
<td>Applied Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHYS M20A/M20AL</td>
<td>Mechanics of Solids and Fluids/Lab</td>
<td>5</td>
</tr>
<tr>
<td>PHYS M20B/M20BL</td>
<td>Electricity and Magnetism/Lab</td>
<td>5</td>
</tr>
</tbody>
</table>

**TOTAL minimum units required in major area**       **35**

Recommended Courses: MATH M15, M30; PHIL M09; PHYS M20C/M20CL

Suggested Course Sequence:

**First Semester**

CS M10A/M10AL .................................................. 4
MATH M25A .......................................................... 5
**Total** ..................................................................... **9**

**Second Semester**

MATH M25B .......................................................... 5
PHYS M20A/M20AL .................................................. 5
**Total** ..................................................................... **10**

**Third Semester**

MATH M35 .......................................................... 3
PHYS M20B/M20BL .................................................. 5
**Total** ..................................................................... **13**

**Fourth Semester**

MATH M35 .......................................................... 3
**Total** ..................................................................... **3**

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

Mathematics Courses

**IMPORTANT NOTES**

a) A satisfactory grade (A, B, C, or CR) is required for all prerequisite college course work. A student receiving an unsatisfactory grade (D, F, or NC) in a prerequisite college course is to repeat the class and receive a satisfactory grade before enrolling in a sequel college mathematics class.

b) The assessment process advises students who have not completed a mathematics class in a college mathematics program. Information on this process is available at the Counselling Center in the Administration Building and also in the fall, spring, and summer class schedules.

c) A student who has earned a satisfactory grade in a college mathematics class may petition to repeat the class after a lapse of two or more years.

**MATH M01 -- 5 Units**

**Elementary Algebra**

Prerequisite: MATH M09 or equivalent skills measured by college assessment process

Class Hours: 5 lecture

Briefly reviews arithmetic, including integers, fractions and decimals. 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. **Does not apply toward a degree.** **Applies**

**MATH M015 -- 1 Unit**

**Elementary Algebra Discussion Session**

Prerequisite: None

Corequisite: MATH M01

Class Hours: 1 lecture

Provides additional discussion and problem solving as supplements to core material of MATH M01. May review history of mathematics and provide opportunities to use computer in solving problems. Only offered credit/no-credit. May be taken two (2) times for credit. **Does not apply toward a degree.**

**MATH M02 -- 3 Units**

**Fundamentals of Geometry**

Prerequisite: MATH M01 or equivalent skills measured by college assessment process. MATH M03 may be taken concurrently.

Class Hours: 3 lecture

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. **Does not apply toward a degree.**

**MATH M03 -- 5 Units**

**Intermediate Algebra**

Prerequisite: MATH M01 or equivalent skills measured by college assessment process

Class Hours: 5 lecture

Reviews elementary algebra, including factoring, rational expressions, linear equations and inequalities. Covers determinants and Cramer's Rule, exponents and radicals, complex numbers, functions and graphs, quadratic equations, exponential and logarithmic functions. **Applies to Associate Degree.**

**MATH M03S -- 1 Unit**

**Intermediate Algebra Discussion Session**

Prerequisite: None

Corequisite: MATH M03

Class Hours: 1 lecture

Provides additional discussion and problem solving as supplements to the core material of MATH M03. May review history of mathematics and provide opportunities to use computer in solving problems. Only offered credit/no-credit. May be taken two (2) times for credit. **Applies to Associate Degree.**

**MATH M04A -- 5 Units**

**Technical Mathematics I**

Prerequisite: MATH M01 or equivalent skills measured by college assessment process

Class Hours: 5 lecture

Covers basic concepts of algebra, functions and graphs, systems of equations, determinants, products and factors, exponential and logarithmic functions, quadratic equations, trig functions, radial measurement, graphs of trig functions, vectors, and complex numbers. **Applies to Associate Degree.**

**MATH M04B -- 5 Units**

**Technical Mathematics II**

Prerequisite: MATH M04A

Class Hours: 5 lecture

Covers nonlinear equations, equations of higher degree, determinants and matrices, inequalities, series, and special topics in trigonometry and analytic geometry. Introduces probability, statistics, and differentiation and integration applications. **Applies to Associate Degree.**
MATH M05 -- 3 Units  
College Algebra  
Prerequisite: MATH M03 or equivalent skills measured by college assessment process; MATH M06 may be taken concurrently.  
Class Hours: 3 lecture  
Covers polynomial functions, rational functions, theory of equations, logarithmic and exponential functions, complex numbers, mathematical induction, sequences and series, binomial theorem, and matrices and determinants. Completing MATH M05 and MATH M06 is same as completing MATH M07. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- 4 units if combined with MATH M07. CAN: MATH 10

MATH M06 -- 3 Units  
Trigonometry  
Prerequisite: MATH M05 or equivalent skills measured by college assessment process; MATH M05 may be taken concurrently.  
Class Hours: 3 lecture  
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. Completing MATH M05 and MATH M06 is same as completing MATH M07. Applies to Associate Degree. Transfer credit: CSU. CAN: MATH 8

MATH M07 -- 5 Units  
College Algebra and Trigonometry  
Prerequisite: MATH M03 or equivalent skills measured by college assessment process  
Class Hours: 5 lecture  
Integrates college algebra and trigonometry. Recommended if entering MATH M25ABC sequence. Includes 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. Taking MATH M05, M06, M06 receives maximum credit of 6 units. Completing MATH M07 is same as completing both MATH M05 and MATH M06. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- 4 units; if combined with MATH M05 maximum credit allowed is one course/4 units. CAN: MATH 16

MATH M07S -- 1 Unit  
College Algebra and Trigonometry Discussion Session  
Prerequisite: MATH M03  
Corequisite: MATH M07  
Class Hours: 1 lecture  
Provides additional discussion and problem solving as supplements to the core material of MATH M07. May review history of mathematics and provide opportunities to use computer in solving problems. Only offered credit/no-credit. May be taken two (2) times for credit. Applies to Associate Degree.

MATH M09 -- 3 Units  
Pre-Algebra  
Prerequisite: None  
Recommended Preparation: Competence with whole number arithmetic (addition, subtraction, multiplication and division of whole numbers)  
Class Hours: 3 lecture  
Prepares students for algebra, emphasizes basic arithmetic operations on fractions, decimals, and signed numbers. Provides drills to reinforce operations. Emphasizes problem solving and practical applications on topics such as percent, proportion, and measurement. Includes introduction to basic algebra. Does not apply toward a degree.

MATH M09S -- 1 Unit  
Pre-Algebra Discussion Session  
Prerequisite: None  
Corequisite: MATH M09  
Class Hours: 1 lecture  
Provides additional discussion and problem solving as supplements to the core material of MATH M09. May review history of mathematics and provide opportunities to use computer in solving problems. Only offered credit/no-credit. May be taken two (2) times for credit. Does not apply toward a degree.

MATH M10 -- 3 Units  
Mathematics for Elementary Teachers  
Prerequisites: MATH M03 or equivalent skills measured by college assessment process; also, year of high school geometry or MATH M02  
Class Hours: 3 lecture  
Covers language of sets; systems of numeration; nature of numbers and the fundamentals of operations; domain of integers; and fields of rational, real and complex numbers. Satisfies credential requirements for elementary and junior high teachers and/or general education option under basic studies. Not open to majors in physical sciences or mathematics. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: MATH 4

MATH M13 -- 3 Units  
Mathematical Ideas  
Prerequisite: MATH M03 or equivalent skills measured by college assessment process  
Class Hours: 3 lecture  
Introduces nature of mathematics and application of mathematics to several disciplines. Includes logic, numeration systems, number theory, mathematical systems, probability, statistics, and their application to arts, architecture, powers, puzzles, computers, geometry, and everyday consumer needs. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: MATH 2

MATH M14 -- 3 Units  
Finite Mathematics  
Prerequisite: MATH M3  
Class Hours: 3 lecture  
Introduces matrices, linear inequalities and linear programming, mathematics of finance, and probability distributions and applications to linear programs for business, managerial, social or behavioral science students. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: MATH 12

MATH M15 -- 5 Units  
Introductory Statistics  
Prerequisite: MATH M03 or equivalent skills measured by college assessment process  
Class Hours: 5 lecture  
Explores nature of statistical methods, including the description of sample data, probability, theoretical frequency distributions, sampling, estimation, testing hypothesis, and special topics. Provides problem solving techniques. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: STAT 2

MATH M15S -- 1 Unit  
Introductory Statistics Discussion Session  
Prerequisite: MATH M03  
Corequisite: MATH M15  
Class Hours: 1 lecture  
Provides additional discussion and problem solving as supplements to the core material of MATH M15. May review history of mathematics and provide opportunities to use computer in solving problems. Only offered credit/no-credit. May be taken two (2) times for credit. Applies to Associate Degree.
MATH M16A -- 3 Units
Applied Calculus I
Prerequisites: MATH M05 or MATH M07 or equivalent skills measured by college assessment process; students need scientific calculator
Class Hours: 3 lecture
Reviews college algebra and then studies limits, continuity and differentiation. Applies differential calculus to problems in business, economics, social and biological sciences. Introduces anti-differntiation. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with MATH M25A. CAN: MATH 30, MATH SEQ D (MATH M16A+M16B).

MATH M16B -- 3 Units
Applied Calculus II
Prerequisite: MATH M16A or MATH M25A
Class Hours: 3 lecture
Includes 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. Applies calculus to problems in business, economics, and social and biological sciences. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with MATH M25B. CAN: MATH 22, MATH SEQ D (MATH M16A+M16B).

MATH M20 -- 3 Units
Introduction to Numerical Methods
Prerequisite: MATH M16A or MATH M25A
Recommended Preparation: High level computer programming class or familiarity with graphic calculator
Class Hours: 3 lecture
Covers error analysis, power series calculation of functions, roots of equations, non-linear simultaneous equations, matrices, determinants, linear simultaneous equations; numerical integration; and interpolation and curve fitting. Provides practical computer applications. Applies to Associate Degree. Transfer credit: CSU; UC.

MATH M22 A/B -- 0.5 to 3 Units Each
Independent Studies in Mathematics
Prerequisite: A previous course in Mathematics
Class Hours: 0.5 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of mathematics through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MATH M25A -- 5 Units
Calculus with Analytic Geometry I
Prerequisites: MATH M05 and MATH M06 or MATH M07
Class Hours: 5 lecture
Reviews 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 first order, separable differential equations with applications. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with MATH M16A. CAN: MATH 18, MATH SEQ A (MATH 25A+25B); SEQ B (MATH M25A + M25B + M25C).

MATH M25AS -- 1 Unit
Calculus with Analytic Geometry I Discussion Session
Prerequisites: MATH M05 and MATH M06 or MATH M07
Corequisite: MATH M25A
Class Hours: 1 lecture
Reviews problems pertinent to material covered in Calculus. May include reading, writing, and using computer to solve calculus problems. Only offered credit/no-credit. May be taken two (2) times for credit. Applies to Associate Degree.

MATH M25B -- 5 Units
Calculus with Analytic Geometry II
Prerequisite: MATH M25A or MATH M16B
Class Hours: 5 lecture
Covers differentiation and integration of logarithmic and exponential functions; inverse trigonometric and hyperbolic functions; techniques of integration; improper integrals and L’Hospital’s Rule; sequences, series, and Taylor’s Theorem; and analytical geometry including conic sections, translations, rotations, and applications of integration and differentiation. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with MATH M16B. CAN: MATH 20, MATH SEQ A (MATH M25A + M25B), SEQ B (MATH M25A + M25B + M25C).

MATH M25BS -- 1 Unit
Calculus with Analytic Geometry II Discussion Session
Prerequisite: MATH M25A or MATH M16B
Corequisite: MATH M25B
Class Hours: 1 lecture
Provides additional discussion and problem solving as supplements to the core material of MATH M25B. May review history of mathematics and provide opportunities to use computer in solving problems. Only offered credit/no-credit. May be taken two (2) times for credit. Applies to Associate Degree.

MATH M25C -- 5 Units
Calculus with Analytic Geometry III
Prerequisite: MATH M25B
Class Hours: 5 lecture
Covers vectors in plane and in three dimensional space, dot and cross products, spherical and cylindrical functions of several variables, partial differentiation, gradients, Lagrange multipliers, multiple integrals and their applications, vector calculus with line and surface integrals, Green’s Theorem, and Applications of Divergence Theorems and applications. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: MATH 22, MATH SEQ B (MATH M25A + M25B + M25C).

MATH M30 -- 3 Units
Introduction to Modern Algebra
Prerequisite: MATH M25B
Class Hours: 3 lecture
Introduces logic and proofs, set theory, relations and mappings, properties of integers, and algebraic structures. Applies to Associate Degree. Transfer credit: CSU; UC.

MATH M31 -- 3 Units
Introduction to Linear Algebra
Prerequisite: MATH M25B
Class Hours: 3 lecture
Includes vectors, vector spaces, matrices, systems of linear equations, dimension, determinants, eigen values, and linear transformations. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: MATH 26
MATH M33 -- 3 Units
Introduction to Analysis
Prerequisite: MATH M25C
Class Hours: 3 lecture
Studies elements of real analysis and set theory, emphasizing thorough understanding of the basic concepts of set theory, algebra and topology of real numbers, limits, and continuity. Applies to Associate Degree.
Transfer credit: CSU, UC

MATH M35 -- 3 Units
Applied Differential Equations
Prerequisite: MATH M25B
Class Hours: 3 lecture
Studies such items as linear differential equations, equations with constant coefficients, parameter variations, systems of linear equations, first order differential equations, and existence and uniqueness of solutions. Emphasizes applications to physics and engineering as well as an introduction to Fourier series and partial differential equations. Applies to Associate Degree. Transfer credit: CSU, UC. CAN: MATH 24

MATH M80 -- 1 to 4 Units
Internship in Math
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, internship office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

MATH M89A-Z -- 0.5 to 3 Units Each
Institutes in Mathematics
Prerequisites: To be determined
Class Hours: As arranged
Series of special lectures and discussions on selected topics of interest in mathematics. Provided as needed. Only offered credit/no-credit. Applies to Associate Degree.

MICROBIOLOGY
See courses in Biological Sciences

MULTIMEDIA
This program is an interdisciplinary program that will connect students across a wide range of disciplines that includes business, art, graphic design, programming, performing arts, journalism, music, radio, and television. With the development of software/hardware technology that can display motion graphics and the realization of a graphical user interface for the Internet, millions of people all over the globe are regular users of a medium that is earning billions of dollars annually.

Career Opportunities
Producer, Business/Marketing Specialist, Project Director, Interactive Writers, General Creative Director, Entertainment/Education-Specialist, Game Designer/Writer, Fine Arts Specialists, Graphic Artists for computer/web-based applications, Animator, Video & Film Producer, Sound Designer, Technicians, General Technical Director, Software Engineer, Web Programmer, Web Master

Dean
Sid Adler, Phone (805) 378-1443

Faculty
Full-Time
John Gray
Part-Time
Dan Restuccio

Counselors
Denise Avila, Don Henderson

Multimedia Certificate Program

Required Courses (Core Course):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM M01</td>
<td>Introduction to Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>MM M02</td>
<td>Visual Design for Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>MM M03</td>
<td>Audio &amp; Motion Graphics for Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>MM M04</td>
<td>Multimedia Design</td>
<td>3</td>
</tr>
<tr>
<td>MM M05</td>
<td>Multimedia Production</td>
<td>3</td>
</tr>
<tr>
<td>MM M06</td>
<td>Multimedia Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>MM M80</td>
<td>Multimedia Internship</td>
<td>1-4</td>
</tr>
<tr>
<td><strong>TOTAL Units</strong></td>
<td></td>
<td><strong>19</strong></td>
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Visual Design Certificate
Multimedia Core Required

Additional Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART M12A</td>
<td>Drawing and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ART M04A</td>
<td>Color and Design</td>
<td>3</td>
</tr>
<tr>
<td>PHOT M01A</td>
<td>Beginning Photography</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL Units</strong></td>
<td></td>
<td><strong>34</strong></td>
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</table>

Visual Design Certificate Electives
(Student must complete at least 6 units from the following):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART M13A</td>
<td>Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART M01C</td>
<td>Art History</td>
<td>3</td>
</tr>
<tr>
<td>GR M31</td>
<td>Graphic Design 1</td>
<td>2</td>
</tr>
<tr>
<td>GR M32</td>
<td>Graphic Design 2</td>
<td>2</td>
</tr>
<tr>
<td>GR M34</td>
<td>Lettering and Typography</td>
<td>2</td>
</tr>
<tr>
<td>GR M40</td>
<td>Beginning Illustration</td>
<td>2</td>
</tr>
<tr>
<td><strong>WWW Design Certificate</strong></td>
<td>Multimedia Core Required</td>
<td>19</td>
</tr>
</tbody>
</table>

Additional Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ART M12A</td>
<td>Drawing and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ART M4A</td>
<td>Color and Design</td>
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WWW Design Certificate Electives
(Student must complete at least 6 units from the following):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS M59</td>
<td>Intro. to Local Area Networks (LAN)</td>
<td>3</td>
</tr>
<tr>
<td>CIS M52</td>
<td>Intro. to Microsoft Windows NT Workstation Server</td>
<td>3</td>
</tr>
<tr>
<td>CIS M60C</td>
<td>Internet &amp; WWW I</td>
<td>3</td>
</tr>
<tr>
<td>CIS M60D</td>
<td>Web Page Design w/HTML</td>
<td>3</td>
</tr>
<tr>
<td>CS M03</td>
<td>Intro to Computer Hardware &amp; Systems Software</td>
<td>3</td>
</tr>
<tr>
<td>CS M10A</td>
<td>Intro. to Programming with C</td>
<td>3</td>
</tr>
<tr>
<td>CS M10AL</td>
<td>Intro. to Programming with C Lab</td>
<td>1</td>
</tr>
<tr>
<td>CS M10B</td>
<td>Object Oriented Programming using C++</td>
<td>3</td>
</tr>
<tr>
<td>CS M10BL</td>
<td>Object-Oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL Units</strong></td>
<td></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>
### Multimedia Courses

**MM M01 – 3 Units**  
**Introduction to Multimedia**  
Prerequisite: None  
Class Hours: 2 lecture, 3 lab  
Explores multimedia industry, including the commercial, artistic, and technical aspects of development teams, occupational opportunities, new directions in multimedia, required competencies, and evaluation of multimedia's and visual literacy's influence on culture. Includes non-linear writing.  
*Applications to Associate Degree. Transfer credit: CSU*  

**MM M02 – 3 Units**  
**Visual Design for Multimedia**  
Prerequisite: None  
Class Hours: 2 lecture, 3 lab  
Introduces principles of design, including line, shape/form, space, size/scale, texture/pattern, orientation, light, volume, perspective, typography and color. Applies principles in a series of progressive projects. Develops aesthetic and artistic abilities using traditional and computer art tools.  
*Applications to Associate Degree. Transfer credit: CSU*  

**MM M03 – 3 Units**  
**Audio and Motion Graphics for Multimedia**  
Prerequisite: None  
Class Hours: 2 lecture, 3 lab  
Introduces fundamentals of audio and video production. Includes creating, editing, and retouching existing sound and video files for multimedia projects as well as providing camera work, lighting, sound design, editing, and storyboarding for interactive media. Requires multimedia presentations.  
*Applications to Associate Degree. Transfer credit: CSU*  

**MM M04 – 3 Units**  
**Multimedia Design**  
Prerequisites: MM M01, MM M02 and MM M03  
Class Hours: 2 lecture, 3 lab  
First course in two-course sequence (with MM M05). Writing intensive. Emphasizes collaborative work to design full-scale, multimedia product such as an online tutorial, interactive game or informative kiosk program. Builds on established skills, moving from concept formation to formative evaluation as part of a teacher-guided production team. Mimics real-world project, requiring ideas, storyboards, prospect reports, scripts, appropriate research and rapid prototypes.  
*Applications to Associate Degree. Transfer credit: CSU*  

**MM M05 – 3 Units**  
**Multimedia Production**  
Prerequisite: MM M04  
Class Hours: 2 lecture, 3 lab  
Second course in two-course sequence (with MM M04). Writing intensive. Emphasizes collaborative work to produce full-scale, multimedia product previously designed as part of production team. Builds on existing work, production and evaluation. Considers delivery platforms and media requirements, including documentation and/or instruction manuals.  
*Applications to Associate Degree. Transfer credit: CSU*  

**MM M06 – 3 Units**  
**Multimedia Entrepreneurship**  
Prerequisite: None  
Class Hours: 2 lecture, 3 lab  
Introduces entrepreneurial opportunities and flexible careers in multimedia industry. Covers how to contact and communicate with prospective clients, design and develop a resume/portfolio and cover letter, and prepare and use project schedules for multimedia production/applications. Emphasizes effective oral communication as well as written in various forms (hard copy, disk-based, and online).  
*Applications to Associate Degree. Transfer credit: CSU*
MM M60A-Z – 0.5 to 1 Unit Each
Topics in Multimedia
Prerequisite: A previous college course in discipline
Corequisite: To be determined
Class Hours: 0.5 to 3 lab as arranged for the 2-4 weeks
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

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

Dean
Sid Adler, Phone (805) 378-1443

Faculty

Full-Time
Orbie Ingersoll, Dolly E. Kessner, James J. Song, James Stemen, Joan Thompson

Part-Time

Counselor
Don Henderson

Music Degree

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 M02A. Diatonic Harmony ......................................................... 3
MUS M02AL Aural Skills I ................................................................. 2
MUS M02B. Chromatic Harmony ....................................................... 3
MUS M02BL Aural Skills II ................................................................. 2
MUS M02C Musical Analysis .............................................................. 3
MUS M02CL Aural Skills III ................................................................. 2
MUS M02D Counterpoint ................................................................. 3
MUS M02DL Aural Skills IV ................................................................. 2
MUS M25C/D Class Piano (taken twice) ............................................. 1.5/1.5
MUS M29 Repertoire (taken twice) .................................................... 1/1
MUS M30 Applied Music (taken twice) .............................................. 2.5/2.5
TOTAL Minimum Units ................................................................. 40

In addition to the required core, choose one area of specialization.

Instrumental Music Specialization
Required Courses ................................................................. 30

Required Additional Courses:
Choose one (1) ensemble class each semester, totaling 8 units:
MUS M15 Moorpark Community Orchestra .................................... 2
MUS M18 Jazz Ensemble ............................................................... 2
MUS M19 Chamber Ensembles ....................................................... 2
MUS M21 Wind Ensemble ............................................................. 2
Choose two units of Music Electives:
MUS M14 Fundamentals of Instrumental Technique ..................... 2
MUS M25A/B Class Piano ............................................................... 1.5/1.5

TOTAL minimum units required in major area ................................ 40

Keyboard Music Specialization
Required Courses ................................................................. 30

Required Additional Courses:
Choose one (1) ensemble class each semester, totaling 8 units:
MUS M19 Chamber Ensembles ....................................................... 2
MUS M20 Piano Ensemble ............................................................. 2
Choose two units of Music Electives:
MUS M25A/B Class Piano ............................................................... 1.5/1.5

TOTAL minimum units required in major area ................................ 40

Music Theory & Composition Specialization
Required Courses ................................................................. 30

Required Additional Courses:
Choose one (1) ensemble class each semester, totaling 8 units, according to your instrumental and/or vocal specialization.
Choose two units of Music Electives:
MUS M14 Fundamentals of Instrumental Technique ..................... 2
MUS M25A/B Class Piano ............................................................... 1.5/1.5

TOTAL minimum units required in major area ................................ 40

Vocal Music Specialization
Required Courses ................................................................. 30

Required Additional Courses:
Choose one (1) ensemble class each semester, totaling 8 units:
MUS M10 Concert Choir ............................................................... 2
MUS M16 Opera Theatre ............................................................... 2
MUS M17 Summer Music Theatre .................................................. 2
MUS M60D Los Robles Master Chorale ........................................ 2
Choose two units of Music Electives:
MUS M13A/B Fundamentals of Vocal Technique ....................... 2/2
MUS M13C/D Advanced Vocal Technique .................................... 2/2
MUS M25A/B Class Piano ............................................................... 1.5/1.5

TOTAL minimum units required in major area ................................ 40

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

Music Certificate

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 M02A. Diatonic Harmony ......................................................... 3
MUS M02B Chromatic Harmony ....................................................... 3
MUS M02AL Aural Skills I ................................................................. 2
MUS M09A Music History and Literature ....................................... 3
Select one of the following options:

Choral Conducting Option

Required Courses:
- MUS M10 .... Concert Choir .................................................. 2
- MUS M13A/B .... Fundamentals of Vocal Technique I-II .................. 2/2
- MUS M25A/B .... Class Piano .................................................. 1.5/1.5
- MUS M27 .... Choral Conducting .............................................. 2
- MUS M60D .... Los Robles Master Chorale .................................. 2
- MUS M60E .... Choral Conducting Seminar .................................. 3

TOTAL minimum units required ........................................... 29

Instrumental Conducting Option

Required Courses:
- MUS M22B .... Aural Skills II .................................................. 1
- MUS M20B .... Music History and Literature ................................ 3
- MUS M19 .... Chamber Ensembles ........................................... 2
- MUS M21 .... Wind Ensemble .................................................. 2
- MUS M22A/B .... Independent Studies in Music ......................... 1/1
- MUS M25A/B .... Class Piano .................................................. 1.5/1.5
- MUS M28 .... Instrumental Conducting ..................................... 2

TOTAL minimum units required ........................................... 30

Vocal Performance Option

Required Courses:
- MUS M22B .... Aural Skills II .................................................. 1
- MUS M10 .... Concert Choir .................................................. 2
- MUS M13A/B .... Fundamentals of Vocal Technique I-II ............... 2/2
- MUS M13C/D .... Advanced Vocal Development II .................... 2/2
- MUS M15 .... Opera Theatre .................................................. 2
- MUS M25A/B .... Class Piano .................................................. 1.5/1.5

TOTAL minimum units required ........................................... 31

Music Courses

MUS M01 -- 3 Units
Fundamentals of Music
Prerequisite: None
Class Hours: 3 lecture
Introduces music theory, notation, intervals, scales, triads, sight singing, and dictation for those with little or no musical experience. Applies to Associate Degree. Transfer credit: CSU; UC (No credit for MUS M01 if taken after MUS M02A).

MUS M02A -- 3 Units
Chromatic Harmony
Prerequisite: MUS M01 or consent of instructor
Corequisite: MUS M02AL
Class Hours: 3 lecture
Studies diatonic harmonic vocabulary, four part chorale writing and voice leading, figured bass, harmonic progression, melodic invention and harmonization and non-harmonic tones. Applies to Associate Degree. Transfer credit: CSU; UC

MUS M02AL -- 2 Units
Aural Skills I
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Includes sight-singing, as well as rhythmic, melodic, and diatonic harmonic dictation to correlate to harmonic vocabulary of MUS M02A. Makes extensive use of Music Learning Center. May be taken two (2) times for credit. Formerly MUS 3A. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: MUS 2.

MUS M02B -- 3 Units
Chromatic Harmony
Prerequisite: MUS M02A
Corequisite: MUS M02BL
Class Hours: 3 lecture
Emphasizes pivot-chord modulation. Studies chromatic harmonic vocabulary, foreign-key modulations, keyboard and instrumental styles, and composition. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: MUS 4.

MUS M02BL -- 2 Units
Aural Skills II
Prerequisite: MUS M02AL
Corequisite: MUS M02B
Class Hours: 1 lecture, 3 lab
Practices sight-singing as well as rhythmic, melodic, diatonic, and chromatic harmonic dictation to correlate to harmonic vocabulary. Makes extensive use of Music Learning Center. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC

MUS M02C -- 3 Units
Musical Analysis
Prerequisite: MUS M02B
Corequisite: MUS M02CL
Class Hours: 3 lecture
Analyzes musical form and harmonic problems while surveying musical literature from the Baroque to the 20th century. Applies to Associate Degree. Transfer credit: CSU; UC

MUS M02CL -- 2 Units
Aural Skills III
Prerequisite: MUS M02BL
Corequisite: MUS M02C
Class Hours: 1 lecture, 3 lab
Emphasizes individualized work in Music Learning Center. Includes complex drill in all areas of musicianship. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC

MUS M02D -- 3 Units
Tonal Counterpoint
Prerequisite: MUS M02B
Corequisite: MUS M02DL
Class Hours: 3 lecture
Introduces analysis and composition of 18th century contrapuntal forms in the style of J.S. Bach. Requires composition of a two-part invention and a three-part fugue. Applies to Associate Degree. Transfer credit: CSU; UC

MUS M02DL -- 2 Units
Aural Skills IV
Prerequisite: MUS M02BL
Corequisite: MUS M02D
Class Hours: 1 lecture, 3 lab
Further expands individualized work in Music Learning Center. Continues complex drills in all areas of musicianship. May be taken two (2) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC

MUS M06 -- 3 Units
Introduction to Jazz
Prerequisite: None
Class Hours: 3 lecture
Introduces development of jazz, emphasizing influence of historical and socioeconomic factors. Includes stylistic analysis of jazz and its musical elements. Applies to Associate Degree. Transfer credit: CSU; UC
MUS M08 -- 3 Units  
Music Appreciation  
Prerequisite: None  
Class Hours: 3 lecture  
Introduces history of music, emphasizing understanding and enjoyment. Investigates basic elements of music, including structure of musical compositions as well as orchestral instrumentation. Focuses on styles, characteristics and composers representative of historic periods. Uses directed listening. Not recommended for Music majors. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M09A -- 3 Units  
Music History and Literature  
Prerequisite: None  
Class Hours: 3 lecture  
Explores musical activity, influences, and contributions of Greek and Roman civilizations. traces development of music of Western world from Romanesque period to Baroque, including major composers as well as instrumental and vocal forms of each period. Requires listening to, identifying, and analyzing representative works of each period. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M09B -- 3 Units  
Music History and Literature  
Prerequisite: None  
Class Hours: 3 lecture  
Studies changing styles, techniques, and forms of music from the middle of the 18th century to the present, emphasizing artistic philosophy of each period. Analyzes style and form of representative works. Requires listening and analysis outside of classroom. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M10 -- 2 Units  
Concert Choir  
Prerequisite: None  
Class Hours: 1 lecture, 3 lab  
Singing organization. Teaches choral music selected from the Renaissance, Baroque, Classical, Romantic, and Modern Periods. Includes performing in on-campus concerts, high school assembly programs, community college choral festivals, and other community events. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M12 -- 2 Units  
Vocal Ensemble  
Prerequisite: Audition  
Class Hours: 1 lecture, 3 lab  
This select group of singers studies and performs suitable choral music from all periods. Spring Ensemble specializes in performance of Renaissance music, including English and Italian madrigals, French chansons, German Lieder, and sacred motets. Known as the Renaissance Singers, the ensemble appears in English Tudor costumes and makes numerous appearances at concerts, festivals, assembly programs, Renaissance Pleasure Faires, and other community events. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M13A -- 2 Units  
Fundamentals of Vocal Technique I  
Prerequisite: None  
Class Hours: 1 lecture, 3 lab  
Begin development of vocal potential to correct faulty singing and to lay foundation for proper vocal production. Emphasizes vocal exercises as well as material sung in Italian, English and German. Designed for both majors and non-majors. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M13B -- 2 Units  
Fundamentals of Vocal Technique II  
Prerequisite: MUS M13A or adequate prior study  
Class Hours: 1 lecture, 3 lab  
Expands vocal development through advanced vocal exercises and the introduction of advanced material, including art songs, opera and oratorio literature. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M13C -- 2 Units  
Advanced Vocal Development I  
Prerequisite: MUS M13B  
Class Hours: 1 lecture, 3 lab  
Continues development of a proper vocal production. Includes English, Italian, German, French art songs and more demanding opera and oratorio literature. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M13D -- 2 Units  
Advanced Vocal Development II  
Prerequisite: MUS M13C  
Class Hours: 1 lecture, 3 lab  
Further expands vocal development through study and performance. Includes more challenging material, emphasizing operatic and oratorio literature as well as more difficult art songs. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M14 -- 2 Units  
Fundamentals of Instrumental Technique  
Prerequisite: None  
Class Hours: 1 lecture, 3 lab  
Introduces basic techniques and proper maintenance of orchestral instruments. Focuses on musical vocabulary, emphasizing effective participation in an ensemble. Successful course completion may lead to membership in college orchestra and/or concert ensembles. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M15 -- 2 Units  
Moorpark Community Orchestra  
Prerequisites: Ability to read music and proficiency on orchestral instrument  
Class Hours: 1 lecture, 3 lab  
Moorpark Community Orchestra provides rehearsals and public performances for instrumentalists. Focuses on standard orchestral repertoire, ranging from chamber music to symphonies covering Renaissance to modern periods. Requires performances. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M16 -- 2 Units  
Opera Theatre  
Prerequisite: MUS M13C  
Class Hours: 1 lecture, 3 lab  
Introduces song literature from musical theatre, focusing on the study and performance of operas and musicals in excerpt or as complete productions. Designed for singers with proven ability and interest in drama. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC.

MUS M17 -- 3 Units  
Summer Music Theatre  
Prerequisite: Audition  
Class Hours: 144 lab total  
Prepares complete musical theatre work from rehearsal to community performance. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC.
MUS M18 -- 2 Units
Jazz Ensemble
Prerequisite: Ability to play a musical instrument appropriate to Jazz Ensemble (piano, percussion, sax, trumpet, guitar, bass guitar, or electronic instruments)
Class Hours: 1 lecture, 3 lab
Requires reading, preparing and performing music arranged for jazz ensemble and big band. Includes rehearsal for and performance at scheduled concerts. May be taken four (4) times for credit. **Applies to Associate Degree.** Transfer credit: CSU; UC

MUS M19 -- 2 Units
Chamber Ensembles
Prerequisite: Ability to play a musical instrument and to read music notation
Class Hours: 1 lecture, 3 lab
Requires study, rehearsal and performance of chamber music literature from Renaissance to the 20th century. May be taken four (4) times for credit. **Applies to Associate Degree.** Transfer credit: CSU; UC

MUS M20 -- 2 Units
Piano Ensemble
Prerequisite: MUS M25B or equivalent training
Class Hours: 1 lecture, 3 lab
Covers piano literature for one piano/four hands and for two pianos/four hands. May be taken four (4) times for credit. **Applies to Associate Degree.** Transfer credit: CSU; UC

MUS M21 -- 2 Units
Wind Ensemble
Prerequisite: Ability to perform on a standard band instrument
Class Hours: 1 lecture, 3 lab
Provides rehearsals and public performances for wind and percussion instrumentalists, focusing on a standard wind ensemble and symphonic band repertoire. May be taken four (4) times for credit. **Applies to Associate Degree.** Transfer credit: CSU; UC

MUS M22/A/B -- 1 to 3 Units Each
Independent Studies in Music
Prerequisite: A previous course in Music
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of music through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. **Applies to Associate Degree.** Transfer credit: CSU; UC credit limitations.

MUS M25A -- 1.5 Units
Class Piano
Prerequisite: None
Class Hours: 3 lecture/lab
Introduces fundamentals of piano playing, music reading, technique, improvisation, scales, chords, and simple piano literature. Requires little or no prior piano experience. **Applies to Associate Degree.** Transfer credit: CSU; UC. CAN MUS 22.

MUS M25B -- 1.5 Units
Class Piano
Prerequisite: MUS M5A
Class Hours: 3 lecture/lab
Enhances music reading and technique skills, exploring chords and scales. Focuses on greater independence of hands. **Applies to Associate Degree.** Transfer credit: CSU; UC. CAN MUS 24

MUS M25C -- 1.5 Units
Class Piano
Prerequisite: MUS M5B
Class Hours: 3 lecture/lab
Continues emphasis on greater independence of hands as well as music reading and technique skills. Includes overview and study of “teaching” pieces of important composers. **Applies to Associate Degree.** Transfer credit: CSU; UC

MUS M25D -- 1.5 Units
Class Piano
Prerequisite: MUS M5SC
Class Hours: 3 lecture/lab
Continues emphasis on greater independence of hands as well as music reading and technique skills. Includes overview and study of intermediate to advanced pieces of major composers. **Applies to Associate Degree.** Transfer credit: CSU; UC

MUS M26 -- 2 Units
Beginning Jazz Piano
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Introduces acoustical or electronic piano from a jazz approach. Focuses on jazz keyboard patterns, including blues or boogie-woogie, ragtime, rock, gospel, and country western. Emphasizes both sight reading skills and playing by ear. May be taken two (2) times for credit. **Applies to Associate Degree.** Transfer credit: CSU; UC

MUS M27 -- 2 Units
Choral Conducting
Prerequisite: None
Class Hours: 2 lecture, 1 lab
Introduces basic conducting techniques, including the 2/4, 3/4, 4/4, 6/8, 3/8, 2/8 and subdivided beat patterns. Includes perusal of video recording to assist learning. Provides live and prepared cassette recordings for conducting practice. **Applies to Associate Degree.** Transfer credit: CSU; UC

MUS M28 -- 2 Units
Instrumental Conducting
Prerequisite: MUS M1
Class Hours: 1 lecture, 3 lab
Studies basic conducting techniques of various instrumental organizations, exploring instrumental literature as well as style, performance and interpretation. May be taken two (2) times for credit. **Applies to Associate Degree.** Transfer credit: CSU; UC

MUS M29 -- 1 Unit
Repertoire Class
Prerequisite: Acceptance into MUS M30
Corequisite: MUS M30
Class Hours: 1 lecture
Requires performance of musical literature studied in MUS M30 or M31. Provides critique by instructor and class. May be taken four (4) times for credit. **Applies to Associate Degree.** Transfer credit: CSU; UC
MUS M30A-G -- 2.5 to 3 Units Each
Applied Music Instruction - Woodwind/Brass/Strings/Piano/Classical Guitar/Percussion/Voice
Prerequisite: Performance at college level to be accepted into Mus 30
Applied Music Program. Audition based on repertoire standards published by Music Department.
Corequisites: 1) Repertoire Class - MUS M29; 2) Music Theory - MUS M02A, M02B, M02G, or M02D; M03; Performance Ensemble - MUS M10, M15, M16, M18, M19, M20, M21, M60D, M60G, M60F, or M60V
Class Hours: 0.5 to 1 lecture, 6 lab
Provides individual instruction through private lesson (half-hour or hour as arranged). Requires six hours of on campus practice per week. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC

MUS M32 -- 2 Units
Class Guitar
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Introduces 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. Applies to Associate Degree. Transfer credit: CSU; UC

MUS M60A-Z -- 1 to 3 Units Each
Topics in Music
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:
MUS M60A -- 2 Units
Intermediate Orchestral Techniques
Prerequisite: MUS M15
Class Hours: 1 lecture, 3 lab
Emphasizes rehearsal disciplines and responsibilities (bowing, finger, and dynamics). May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M60B -- 3 Units
Intermediate Studies in Music Theory
Prerequisite: MUS M02A
Class Hours: 3 lecture
Emphasizes special intermediate studies in music theory and analysis. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M60C -- 3 Units
Advanced Studies in Music Theory
Prerequisites: MUS M02A and MUS M02B
Class Hours: 3 lecture
Offers advanced study in harmonic analysis, counterpoint, and form. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M60D -- 2 Units
Los Robles Master Chorale
Prerequisite: Audition
Class Hours: 1 lecture, 3 lab
Performance group designed for experienced singer. Emphasizes choral works of master composers from the Renaissance, Baroque, Classic, Romantic, and Modern Periods that are suitable for the large ensemble. Requires audition and performances. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M60E -- 3 Units
Choral Conducting Seminar
Prerequisite: MUS M27 or equivalent experience
Class Hours: 3 lecture
Addresses problems facing the choral director. Focuses on understanding the historical background of choral conducting, the director's role as interpreter, the selection of appropriate choral materials, the stylistic differences of choral music from various periods, the efficient use of rehearsal techniques, and of conducting the performance. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M60F -- 2 Units
Advanced Orchestral Techniques
Prerequisite: MUS M60A
Class Hours: 1 lecture, 3 lab
Emphasizes interpretation of rhythm and phrasing. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M60G -- 2 Units
Advanced Chamber Music
Prerequisite: MUS M19
Class Hours: 1 lecture, 3 lab
Continues instruction in the performance of small ensemble instrumental music. Studies graded literature for various instrumental combinations for rehearsal and performance. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M60J -- 2 Units
Intermediate Jazz Performance
Prerequisite: MUS M18
Class Hours: 4 lecture/lab
Emphasizes improvisational techniques as well as rehearsal disciplines and responsibilities (i.e., fingerings, dynamics, ensemble techniques, various jazz styles, etc.). Requires rehearsal and performance at scheduled concerts. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M60K -- 2 Units
Advanced Jazz Performance
Prerequisite: MUS M60J
Class Hours: 4 lecture/lab
Further emphasizes jazz performance styles as well as rehearsal disciplines and responsibilities. Requires rehearsal and performance at scheduled concerts. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M60P -- 2 Units
Advanced Choral Performance
Prerequisite: Audition
Class Hours: 1 lecture, 3 lab
Requires strong note-reading abilities and voice skills. Includes performance of advanced choral literature. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M60T -- 2 Units
Masterworks Abroad
Prerequisite: Audition
Class Hours: 6 lab
Combines preparatory rehearsals on campus with concert performances, seminars, lectures, and related cultural activities on tour abroad. Designed for experienced singers. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.
MUS M60Y -- 2 Units
Advanced Concert Choir
Prerequisites: Satisfactory completion of MUS M10 and MUS M60P or equivalent work; audition required
Class Hours: 1 lecture, 3 lab
Choral organization. Focuses on refinement of choral singing, emphasizing intonation, tonal quality, tonal blend and balance, textual articulation, interpretation, and stage presence. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

MUS M80 -- 1 to 4 Units
Internship in Music
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1666. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

NURSING SCIENCE
See courses in Health Sciences

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 require bachelors or graduate degree.
Diet Aide, Diet Program Lecturer, Dietitian/Nutritionist, Food Services Manager, Community Nutrition Advisor

Dean
Al Novelo, Phono (805) 378 1457

Faculty
Full-Time
Judy Alexander

Part-Time
Linda Vickers, Diane Woods

Counselors
- Leilisha Mal, Ofelia Romero-Matlagh, Danita R. Redd

NUTRITIONAL SCIENCE Courses

NTS M01 -- 3 Units
Nutrition
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Introduces nutrients as well as their sources, assimilation, functions and requirements. Includes evaluation of current national and international problems with nutritional information presented in mass media. NTS formerly NIS. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with NTS M03 and HPSO M02. CAN: H-B-C 2

NTS M03 -- 3 Units
Current Issues in Nutrition
Prerequisite: NT S M1
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Focuses on contemporary nutrition concerns, including nutrition and stress, body image, wellness, nutrient supplements, energy balance and eating disorders. Includes review of career options in health care fields. NTS formerly NIS. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed -- one course if combined with NT S M01 and HPSO M02.

NTS M04 -- 3 Units
Nutrition, Fitness and Stress Management
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Offers integrated approach to good health and physical fitness. Applies basic principles of exercise, nutrition and human behavior to topics such as weight control, heart disease and stress management. Emphasizes habits and techniques of healthy life style. NTS formerly NIS. Applies to Associate Degree. Transfer credit: CSU

NTS M05 -- 3 Units
Nutrition for the Health Professions
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Applies nutrition principles to common medical disorders. Includes techniques for evaluating nutritional status and promoting optimal nutrition. NTS formerly NIS. Applies to Associate Degree. Transfer credit: CSU

NTS M22A/B -- 1 to 3 Units Each
Independent Studies in Nutritional Science
Prerequisite: A previous course in Nutritional Science
Class hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of nutritional science through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. NTS formerly NIS. Applies to Associate Degree. Transfer credit: CSU.
NTS M80 -- 1 to 4 Units
Internship in Nutritional Science
Prerequisite: Completion of or concurrent enrollment in one course in the
discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct
supervision of faculty and industry supervisors. Both supervisors pro-
vide feedback and written evaluations. Some meetings and workshops
may be required as part of the course. To take this course, contact the
Internship Office: Call (805) 378-1400, ext. 1668. May be taken four
(4) times for credit. NTS formerly NIS. Applies to Associate Degree.
Transfer credit: CSU, credit limitations.

NTS M89A-Z -- 0.5 to 3 Units Each
Institutes in Nutritional Science
Prerequisite: None
Class Hours: As arranged
Special series of short courses focusing on particular aspects of Nutri-
tional Science not covered in general offerings. Provides opportunity for
specialized study. Only offered credit/no-credit. NTS formerly NIS. Ap-
plies to Associate Degree.

OFFICE SKILLS
See courses in Computer Information Systems

PARENTING
See courses in Child Development

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 in-
volved student government.

Dean
Ed Tenner, Phone (805) 378-1447

Faculty

Full-Time
Denise Biva, Frank Bianchino, Chuck Brinkman, Donald Henderson,
Edna Ingram, Mike Johnson, Letrizah Mau, Olivia Menezes,
Donna Proske Allyn, Danita K. Redd, Ofelia Romero-Motlagh

Part-Time
Barbara Braid, Gail Goodman, Mary Martin, Michael Orenstein

Leadership Courses

LDR M01 -- 1 Unit
Principles of Leadership I
Prerequisite: None
Class Hours: 1 lecture, 1 practicum as arranged
Introduces basic tenets of parliamentary procedure. Requires appli-
cation of parliamentary procedure in the group situation. May be taken
four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU

LDR M02 -- 2 Units
Principles of Leadership II
Prerequisite: None
Class Hours: 2 lecture
Expands review of parliamentary procedure, emphasizing such topics
as problem solving, affirmative action, cultural diversity, argumenta-
tion and debate, shared governance, ethics, and the legislative process.
Introduces business management techniques and use of computers.
Includes guest speakers from campus and community. Only offered credit/
no-credit. May be taken four (4) times for credit. Applies to Associate Degree.
Transfer credit: CSU

LDR M89A -- 1 Unit
Student Government Leadership
Prerequisite: None
Class Hours: 16 lecture total
Develops leadership skills helpful when serving as officer in student gov-
ernment or student activities program. Requires some campus involve-
ment. Only offered credit/no-credit. Applies to Associate Degree. Transfer
credit: CSU

Personal Growth Courses

PG M01 -- 1 Unit
Student Success
Prerequisite: None
Class Hours: 2 lecture for 8 weeks
Emphasizes techniques, attitudes and skills that promote academic suc-
cess. Includes individualized needs assessment and introduction to campus
resources. Focuses on overcoming typical obstacles by improving time
and stress management, avoiding procrastination, setting goals, understanding
addiction problems, and building successful relationships. Applies
to Associate Degree. Transfer credit: CSU

PG M02 -- 3 Units
Career Development
Prerequisite: None
Class Hours: 3 lecture
Introduces self-assessment techniques and instruments that help iden-
tify interests and skills needed to set educational goals and explore ca-
cer options. Reviews decision-making strategies, labor market trends,
interviewing skills, resume writing, and application completion and job
search techniques. Applies to Associate Degree. Transfer credit: CSU

PG M02A -- 1.5 Units
Career Development -- Choosing a Major
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
First half of PG M02. Introduces self-assessment techniques and instru-
mments designed to establish realistic academic goals. Explores career
research to determine major. Reviews labor market trends and deci-
sion-making strategies. (PG M02A and M02B equals PG M02). Applies
to Associate Degree. Transfer credit: CSU (PG M02A + M02B)

PG M02B -- 1.5 Units
Career Development -- Job Search
Prerequisite: None
Class Hours: 3 lecture for 8 weeks
Second half of PG M02. Reviews traditional job search methods. Re-
quires practice of interview skills through role-playing and production of
resume and cover letter. Emphasizes job search as a pro-active self-
marketing process. (PG M02A and M02B = PG M02). Applies to Asso-
ciate Degree. Transfer credit: CSU (PG M02A + M02B)
PG M03 -- 0.5 Unit
Orientation
Prerequisite: None
Class Hours: 5 lecture total
This Testing, Orientation, Planning Program (TOP) involves assessments and materials that assist students with placement decisions. Introduces College's programs and services. Includes assistance from counselors with educational planning and may include viewing of the Moorpark College Orientation video. Encourages attendance at Counseling Workshop in area of interest. Only offered credit/no-credit. Applies to Associate Degree.

PG M04 -- 1 Unit
Student Development in Higher Education
Prerequisite: None
Recommended Preparation: PG M03
Class Hours: 2 lecture for 8 weeks
Extends introduction of College's services, programs, and technological resources, emphasizing student development, lifelong learning and meeting academic requirements. Introduces the role of higher education in life as well as study skills, learning styles, problem solving techniques, decision-making models, time management tools, and values clarification techniques. Explores individual long-term educational goals by developing Student Education Plan (SEP). Applies to Associate Degree. Transfer credit: CSU

PG M60A-Z -- 1 to 3 Units Each
Topics in Personal Growth
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes. Only offered credit/no-credit. Does not apply toward a degree. Developed topics include:

PG M60A -- 1 Unit
Confident Test Taking
Prerequisite: None
Class Hours: 16 lecture total
Introduces problem-solving approaches and relaxation techniques to apply during test situations. Develops positive self-image while taking tests. May be taken four (4) times for credit. 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 re-experiencing of these problems and doubts in one's own life. The goal is to examine ourselves, our culture, and our world with the aim of criticizing and contributing toward a reformation of self and world. The program also develops analytical, critical writing skills that are an excellent preparation for professional and other careers.

Career Opportunities

Most careers require bachelors or graduate degree.
Social Worker, Lawyer, Public Administrator, Urban Planner, Management Trainer, Project Director

Dean
Al Nordquist, Phone (805) 378-1445

Faculty

Full-Time
Janice Dauroio, Victor Fontaine, Elton Hall

Part-Time
Jerold Caplan, Ron McCarney, Mark Purcell, Michael Rosenthal, Henry Talifer, Doug Thiel

Counselors
Mike Johnson, Mary Martin

Philosophy Degree

Associate in Arts Degree
For required courses consult the Dean's office at (805) 378-1445.

Philosophy Courses

PHIL M01 -- 3 Units
Introduction to Philosophy
Prerequisite: None
Class Hours: 3 lecture
Systematically explores the concepts of knowledge, reality, and value, including review of epistemology, metaphysics, ethics, aesthetics, political philosophy, and philosophy of religion. Introduces idealism, realism, skepticism, materialism, and relativism. Applies to Associate Degree. Transfer credit: CSU; UC; CAN: PHIL 2

PHIL M02 -- 3 Units
Values and Society
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Introduces philosophy of ethics by exploring basic questions: What is good? What is right? How should I live? What are my obligations to others? Are morals relative? Does free will exist? Reviews ideas and arguments of philosophers concerning these and related issues. Encourages individual application of ideas presented. Applies to Associate Degree. Transfer credit: CSU; UC; CAN: PHIL 4

PHIL M03 -- 3 Units
Social and Political Philosophy
Prerequisite: None
Class Hours: 3 lecture
Introduces philosophical foundations of social and political thought. Emphasizes view of people when following individual rules, as group members within social roles, and as legal relationships within political institutions. Demonstrates importance of philosophical assumptions about such collective human nature by clarifying differences and connections between these perspectives. Applies to Associate Degree. Transfer credit: CSU; UC

PHIL M04 -- 3 Units
Values and the Environment
Prerequisite: None
Class Hours: 3 lecture
Introduces ethics by exploring basic questions about the environment and its nonhuman inhabitants: Do animals have rights? Do humans have obligations to nonhuman entities, including earth? Explores anthropocentrism, ecocentrism, ecosocialism and multicultural perspectives of humankind and nature. Reviews ideas and arguments of philosophers concerning these and related issues. Encourages individual application of ideas presented. Applies to Associate Degree. Transfer credit: CSU; UC
PHIL M05 -- 3 Units
Critical Thinking and Analytic Writing
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces critical reasoning, including analysis and synthesis, induction and deduction, and identification of assumptions and perspectives. Emphasizes oral and written analysis and argumentation, clarifying fact, belief and value and identifying and avoiding common fallacies of thought, logic and language. Expands development of critical reading, analytic writing and the relation of writing to critical thinking beyond level achieved in ENGL M01A. Applies to Associate Degree. Transfer credit: CSU; UC

PHIL M06 -- 3 Units
Introduction to Non-Western Philosophy
Prerequisite: None
Class Hours: 3 lecture
Systematically explores concepts of human knowledge, reality and thought as found in non-western traditions. Examines theoretical and practical concepts, including issues of free will, skepticism, dogmatism, materialism, epistemology, metaphysics and aesthetics. Directly corresponds to introduction provided by PHIL M01 but with a non-western emphasis. Applies to Associate Degree. Transfer credit: CSU; UC

PHIL M07 -- 3 Units
Introduction to Logic
Prerequisite: None
Class Hours: 3 lecture
Explores deductive and inductive thought processes, emphasizing definition, verification, validity, forms of argument and fallacious reasoning, and application of various areas of inquiry. Applies to Associate Degree. Transfer credit: CSU; UC

PHIL M09 -- 3 Units
Symbolic Logic
Prerequisite: None
Class Hours: 3 lecture
Introduces symbolic logic, including the logic of connectives and quantifiers. Includes truth functional composition, consistency trees, derivations, and quantifications. Applies to Associate Degree. Transfer credit: CSU; UC

PHIL M10 -- 3 Units
Mythology
Prerequisite: None
Recommended Preparation: ENGL M01A
Class Hours: 3 lecture
Explores nature and content of various mythologies, including Greek and Roman, Egyptian and Scandinavian as well as surveys of Middle Eastern and Indian mythology and the myths of archaic peoples. Examines theories of myth and mythic discourse, highlighting use of myth in literature, art and society. Discusses use of myth and mythic language in contemporary thought. Applies to Associate Degree. Transfer credit: CSU; UC

PHIL M11 -- 3 Units
Survey of World Religions: West
Prerequisite: None
Class Hours: 3 lecture
Systematically introduces major ideas of the world's western religious traditions, including Judaism, Christianity and Islam. Explores cultural and historical contexts in which each religion arose as well as recent offshoots of these traditions. Views each religion from standpoint of its proponents. Emphasizes main similarities and differences exhibited within these traditions. Applies to Associate Degree. Transfer credit: CSU; UC

PHIL M12 -- 3 Units
Survey of World Religions: East
Prerequisite: None
Class Hours: 3 lecture
Systematically introduces major ideas of the world's eastern religious traditions, including Hinduism, Zoroastrianism, Buddhism, Jainism, Sikhism, Taoism, Confucianism and Shinto. Explores cultural and historical contexts in which these religions arose. Views each religion from the standpoint of its proponents. Emphasizes main similarities and differences exhibited within these traditions. Applies to Associate Degree. Transfer credit: CSU; UC

PHIL M13 -- 3 Units
The Classical Mind
Prerequisite: None
Recommended Preparation: ENGL M01A
Class Hours: 3 lecture
Surveys ancient and medieval philosophy up to the Renaissance, emphasizing the development of central philosophical themes. Applies to Associate Degree. Transfer credit: CSU; UC pending

PHIL M14 -- 3 Units
The Modern Mind
Prerequisite: None
Recommended Preparation: ENGL M01A
Class Hours: 3 lecture
Surveys modern philosophy since the Renaissance, emphasizing the development of themes in contemporary philosophy. Applies to Associate Degree. Transfer credit: CSU; UC pending

PHIL M17 -- 3 Units
Health Care Ethics
Prerequisite: None
Class Hours: 3 lecture
Approved for continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Explores bioethical health care issues and implications from societal, institutional, individual and clinical perspectives. Provides legal foundation for analyzing and resolving ethical problems. Reviews bioethical theories and principles, legal liability, confidentiality, ethical conflict and moral dilemmas. (Same course as HS M17). Applies to Associate Degree. Transfer credit: CSU

PHIL M22A/B -- 1 to 3 Units Each
Independent Studies in Philosophy
Prerequisite: A previous course in Philosophy
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of philosophy through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations

PHIL M60A-Z -- 0.5 to 3 Units Each
Topics in Philosophy
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.
Developed topics include:

PHIL M60A -- 1 Unit
Philosophy of Nonviolence
Pre requisite: None
Class Hours: 1 lecture
Explores theory and practice of nonviolence as both a political strategy and a philosophical approach to life. Reviews classical and contemporary texts, including works by Gandhi, Camus, and Thoreau. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

PHIL M80 -- 1 to 4 Units
Internship in Philosophy
Pre requisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

PHOTOGRAPHY
A comprehensive program designed to provide professional job skills for future photographers is the goal of this program.

Career Opportunities
Portra it Photographer, Aerial Photographer, Still Photographer, Photograph Retoucher, Photograph Printer, Photojournalist, Audio-Visual Designer, Corporation Photographer, Photo Finishing Specialist, Slide Program Producer/Director, Fine Art Photographer, Editorial Photographer

Dean
Sid Adler, Phone (805) 378-1443

Faculty
Full-Time
John Graywacz-Gray

Part-Time
Amram Fiers, James Parker

Counselor
Don Henderson

Photography Degree (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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ART M04 A</td>
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<tr>
<td>PHOT M01 A</td>
<td>3</td>
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<tr>
<td>PHOT M01 B</td>
<td>3</td>
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<tr>
<td>PHOT M02</td>
<td>3</td>
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<td>PHOT M03</td>
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<td>PHOT M04</td>
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<td>PHOT M05</td>
<td>3</td>
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<tr>
<td>PHOT M08</td>
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<tr>
<td>TOTAL minimum units required in major area</td>
<td>24</td>
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</tbody>
</table>

Recommended Courses:
ART M01A, M01B, M04B, M12A, M12B, HUM M03

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

Photo-Journalism Degree (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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tr>
<td>JOUR M01</td>
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<tr>
<td>JOUR M02</td>
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<td>PHOT M01 A</td>
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<tr>
<td>PHOT M01 B</td>
<td>3</td>
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<td>PHOT M02</td>
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<td>PHOT M03</td>
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<td>PHOT M04</td>
<td>3</td>
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<td>PHOT M08</td>
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<tr>
<td>TOTAL minimum units required in major area</td>
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See Degree Requirements and Transfer Information section for General Education requirements.

Certificate of Achievement in Photography

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<th>Course</th>
<th>Units</th>
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<td>ART M01 C</td>
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<tr>
<td>PHOT M01 A</td>
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<td>PHOT M01 B</td>
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<td>PHOT M02</td>
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<td>PHOT M03</td>
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<td>PHOT M04</td>
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<td>PHOT M08</td>
<td>3</td>
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<tr>
<td>GRD M01</td>
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<tr>
<td>TOTAL units required</td>
<td>30</td>
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</table>

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Certificate of Achievement in Photojournalism

JOUR M01 Media and Society .......................................................... 3
JOUR M02 News Reporting and Writing ........................................... 3
PHOT M01A Beginning Photography .............................................. 3
PHOT M01B Intermediate Photography ......................................... 3
PHOT M03 Basic Color ................................................................. 3
PHOT M04 Advanced Photography ............................................... 3
GRD M30 Introduction to Computer Graphics .................................... 3
PHOT M60I Electronic and Digital Photography ............................... 3
PHOT M09 "Reporter" Staff Photography ......................................... 4

TOTAL units required .................................................................... 28

Photography Courses

PHOT M01A -- 3 Units
Beginning Photography
Prerequisites: None
Class Hours: 2 lecture, 3 lab
Explores photography as a means of creative expression. Introduces photographic theory, including camera operation, exposure, developing and printing. PHOT formerly PHOT0. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: ART 18

PHOT M01B -- 3 Units
Intermediate Photography
Prerequisite: PHOT M01A or suitable portfolio
Class Hours: 2 lecture, 3 lab
Explores variety of traditional techniques in black and white, including high contrast images, solarization, photochemistry, gum bichromate printing and cyanotypes. Reviews 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. Emphasizes creativity. PHOT formerly PHOT0. Applies to Associate Degree. Transfer credit: CSU; UC

PHOT M02 -- 3 Units
History of Photography
Prerequisites: None
Class Hours: 3 lecture
Surveys history of photography from Daguerre to contemporary images. Explores genres and theories begun in past but which intensify and clarify current work. PHOT formerly PHOT0. Applies to Associate Degree. Transfer credit: CSU; UC

PHOT M03 -- 3 Units
Basic Color
Prerequisite: PHOT M01B or suitable portfolio
Class Hours: 2 lecture, 3 lab
Introduces principles of color photography. Develops expressive visual statement. Reviews processing of transparency materials, emphasizing creative special effects achieved through unique lighting, films and camera techniques. Encourages experimentation. May be taken two (2) times for credit. PHOT formerly PHOT0. Applies to Associate Degree. Transfer credit: CSU

PHOT M04 -- 3 Units
Advanced Photography
Prerequisite: PHOT M03 or suitable portfolio
Class Hours: 2 lecture, 3 lab
Refines technical and aesthetic understanding in black and white and/or color photography. Includes zone system, basic densitometry, expansion and compaction development, the view camera, artificial light technique, and portfolio development. Intensifies personal statement through major individual projects. PHOT formerly PHOT0. Applies to Associate Degree. Transfer credit: CSU

PHOT M05 -- 3 Units
Color Printing
Prerequisite: PHOT M03 or suitable portfolio
Class Hours: 2 lecture, 3 lab
Introduces "Type C" printing techniques. Explores special effects, including multiple printing, diffusion, distortion control and exaggeration, combination printing, high contrast, solarization, and posterization. Requires printing from color negative. May be taken two (2) times for credit. PHOT formerly PHOT0. Applies to Associate Degree. Transfer credit: CSU

PHOT M08 -- 3 Units
Basic Photo-Journalism
Prerequisite: PHOT M01A or suitable portfolio
Class Hours: 2 lecture, 3 lab
Introduces aspects of photography applicable to mass communication as well as broadcast and print journalism. concentrates on translating ideas to images for reproduction in magazines and newspapers and as book illustrations. Includes special effects, use of camera and light as creative tools, and basic motion picture techniques. May be taken two (2) times for credit. (Same course as JOUR M08). PHOT formerly PHOT0. Applies to Associate Degree. Transfer credit: CSU

PHOT M09 -- 4 Units
"Reporter" Staff Photography
Prerequisite: PHOT M03 or suitable portfolio
Class Hours: 3 lecture
Introduces campus newspaper photographers to all phases of press photography: news, feature, illustration, portraiture, sports, and advertising. Uses aesthetic and technical skill to communicate visually. May be taken two (2) times for credit. PHOT formerly PHOT0. Applies to Associate Degree. Transfer credit: CSU

PHOT M22A/B -- 1 to 3 Units Each
Independent Studies in Photography
Prerequisite: A previous course in Photography
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of photography through research, lab work or field trips. Includes one-on-one work with Instructor. May be taken for a maximum of 6 units. PHOT formerly PHOT0. Applies to Associate Degree. Transfer credit: CSU

PHOT M60A-Z -- 1 to 3 Units Each
Topics in Photography
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes. PHOT formerly PHOT0. Developed topics include:

PHOT M60A -- 1 Unit
Field Studies in Photography
Prerequisites: None
Class Hours: 0.5 lecture, 1.5 lab
Concentrates on solving photographic problems of specific location, working in either black and white or color. May be taken four (4) times for credit. PHOT formerly PHOT0. Applies to Associate Degree.

PHOT M60B -- 2 Units
Field Studies in Photography
Prerequisites: None
Class Hours: 1 lecture, 3 lab
Concentrates on solving photographic problems of specific location, working in either black and white or color. May be taken four (4) times for credit. PHOT formerly PHOT0. Applies to Associate Degree.
PHOTOGRAPHY

M60C -- 3 Units
Field Studies in Photography
Prerequisites: None
Class Hours: 1 lecture, 6 lab
Concentrates on solving photographic problems of specific location, working in either black and white or color. May be taken four (4) times for credit. PHOT formerly PHOTO. Applies to Associate Degree.

PHOT M60D -- 1 Unit
Laboratory Practice
Prerequisites: None
Class Hours: 0.5 lecture, 1.5 lab
Offers instructor-supervised lab work for beginning, intermediate and advanced students. May be taken four (4) times for credit. PHOT formerly PHOTO. Applies to Associate Degree.

PHOT M60E -- 2 Units
Laboratory Practice
Prerequisites: None
Class Hours: 0.5 lecture, 4.5 lab
Offers instructor-supervised lab work for beginning, intermediate and advanced students. May be taken four (4) times for credit. PHOT formerly PHOTO. Applies to Associate Degree.

PHOT M60F -- 3 Units
Laboratory Practice
Prerequisites: None
Class Hours: 1 lecture, 6 lab
Offers instructor-supervised lab work for beginning, intermediate and advanced students. May be taken four (4) times for credit. PHOT formerly PHOTO. Applies to Associate Degree.

PHOT M60G -- 3 Units
Electronic and Digital Photography
Prerequisite: Course in the discipline
Class Hours: 4 lecture, 3 lab
Introduces electronic photography and image processing on the Macintosh computer, using silver halide film, electronic still cameras and various scanning techniques to produce photographic output. May be taken two (2) times for credit. Same course as GR 332. Formerly GRD 60E. PHOT formerly PHOTO. Applies to Associate Degree.

PHOT M80 -- 1 to 4 Units
Internship in Photography
Prerequisite: Completion of 6 or concurrent enrollment in one course in the discipline
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. PHOT formerly PHOTO. Applies to Associate Degree. Transfer credit. CSU, credit limitations.

PHYSICAL EDUCATION

Physical Education classes offer students an opportunity to enrich their education with emphasis on improved individual physical well-being as well as professional career options.

CAREER OPPORTUNITIES

ASSOCIATE DEGREE LEVEL
Athlete, Recreation Specialist, Camp Counselor, Community Center Leader, Playground Director, Recreation Leader, Referee, Industrial Recreation Leader, Racquet Club Manager, Fitness Specialist

BACHELORS DEGREE LEVEL
Athletic Trainer, Teacher, Pre-Physical Therapist, Corrective Therapist, Exercise Test Technologist, Sports caster, Coach, Resort Sports Coordinator, Health and Safety Director, YM/YWCA Instructor, Sports Editor, Therapist, Recruiter

DEAN
Al Nordquist, Phone (805) 378-1446

FACULTY

FULL-TIME
James Bittner, Donald Green, Ronald Halleran, John Keeve, MoDean McCullough, Gilbert Mendoza, Delbert Parker, Sherry Ruter, Nancy Stewart, Willard Thurston

PART-TIME
Gary Abraham, David Balmuelos, Steven Berk, James W. Bittner, Stephen Burkhart, Howard Davis, Leslie Daily, Charlene Dow, Arthur Green, Paul Keyes, Everett Macy, Pauletta Matsui, Remy McCarthy, Cathrine Dewet-Oleson, Eldin Onsgard, Mario Porto, Paul Steele, Kate Templeton, Kenneth Wagner

COUNSELOR
Donna Proske Allyn

HUMAN PERFORMANCE DEGREE

ASSOCIATE IN ARTS DEGREE
This pre professional "core" program is designed to prepare students for transfer to bachelor degree programs in Physical Education, Physical Therapy, Athletic Training, Coaching and Fitness Management.

REQUISITED COURSES:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 90</td>
<td>2</td>
</tr>
<tr>
<td>PE M91</td>
<td>1</td>
</tr>
<tr>
<td>HED M01</td>
<td>2</td>
</tr>
<tr>
<td>HED M05</td>
<td>2</td>
</tr>
<tr>
<td>HED M06</td>
<td>3</td>
</tr>
<tr>
<td>PSY M01A</td>
<td>3</td>
</tr>
<tr>
<td>ANAT M01</td>
<td>4</td>
</tr>
<tr>
<td>PHYS M01</td>
<td>5</td>
</tr>
<tr>
<td>NTS M01</td>
<td>3</td>
</tr>
<tr>
<td>PE Activities (3)*</td>
<td>4.5</td>
</tr>
</tbody>
</table>

TOTAL minimum units required in major area 32.5

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

TEAM
PE M23C/D - Baseball; PE M24C/D - Basketball;
PE M25C/D - Football; PE M27C/D - Soccer;
PE M28C/D - Softball; PE M29C/D - Track;
PE M30A/C/D - Volleyball

(College athletics in any area will be included)

INDIVIDUAL
PE M2B - Free Weights; PE M06 - Golf;
PE M08 - Power Lifting; PE M11 - Tennis
PE M38 - Wrestling; Any Dance activity class
CARDIOVASCULAR
PE M01A - Walking; PE M03A - Running
PE M04 - Aerobics; PE M07 - Step-Aerobics

Physical Education Courses
An Associate Degree requires one or more PE/Dance activity classes for a minimum of 1.5 units total. Any combination of PE/ activity courses of a particular kind (e.g., body conditioning, golf, tennis, etc.) may be taken a total of four (4) times.

Students planning to take more than 4 units of Physical Education activity courses should consult a counselor. The California State University (CSU) system accepts all PE courses for comparable semester credit, but the University of California (UC) system will only accept a total of four (4) units of credit.*

Individual Sports Activities
PE M01A -- 1 to 1.5 Units
Walking for Fitness
Prerequisite: None
Class Hours: 8 - 13 total lecture, 24 - 40 total activity
Provides exercise and fitness training, emphasizing cardiovascular conditioning to improve muscle tone. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M02A -- 0.5 to 1.5 Units
Body Conditioning/Fitness Lab
Prerequisite: None
Class Hours: 4.5 to 0.5 lecture total; 16 to 42 activity as arranged
Emphasizes strengthening and cardiovascular fitness, strength, muscle endurance and flexibility. Allows individual scheduling of required lab hours. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M02B -- 1 to 1.5 Units
Body Conditioning/Free Weights
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Introduces overall body conditioning. Emphasizes improving the cardiovascular system, enhancing flexibility, and increasing muscular strength. Includes jogging, stretching, and specific free weight exercises. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M03A -- 1 to 1.5 Units
Running for Fitness and Conditioning
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Emphasizes improved physical health and cardiovascular fitness through running and overall conditioning. Includes endurance training with a gradual increase in distance. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M03B -- 1 to 1.5 Units
Sprintining for Fitness and Conditioning
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Uses sprinting to improve physical fitness and general health. Emphasizes maximum speed performance and enhanced cardiovascular efficiency. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M04 -- 1 to 1.5 Units
Body Conditioning through Rhythmic/Aerobicics
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Introduces series of simple but vigorous dances that improve circulation, respiration, digestion, agility, flexibility, coordination and rhythm as well as endurance and strength. Includes supervised practice. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M05 -- 1.5 Units
Bowling
Prerequisite: None
Class Hours: 1 lecture, 2 activity
Introduces rules, etiquette, safety and techniques of bowling. Meets off campus. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M06A -- 1 to 1.5 Units
Beginning Golf
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Introduces basic rules and skills needed for playing golf. Includes development of skills and analysis of technique. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M06C -- 1 to 1.5 Units
Intermediate Golf
Prerequisite: PE M06A
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Expands golfing skills through more extensive review of techniques and increased practice. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M06D -- 1 to 1.5 Units
Advanced Golf
Prerequisite: PE M06C
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Studies bio-mechanical principles of golf as preparation for golf competition. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M07 -- 1 to 1.5 Unit
Step-Aerobics
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Develops proficiency in step-aerobics skills and improved cardiovascular efficiency. Works every major muscle group in the lower body while strengthening and conditioning the upper body. Uses adjustable step platform to accommodate varying fitness and impact levels. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M08 -- 1 to 1.5 Units
Power Lifting/Free Weights
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Introduces weight training and conditioning to build strength, power, and bulk. Focuses on the development of upper body strength, rehabilitation and strengthening of knee joints, and refinement of power lifting for the lower body. Emphasizes quickness, coordination, balance, and speed through competitive drills and routines. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M09 -- 1 to 1.5 Units
Racquetball
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 - 40 activity total
Emphasizes fundamentals of racquetball, including game rules, proper use and purchase of equipment, court etiquette, and safety. Applies to Associate Degree. Transfer credit: CSU; UC*

PE M11A -- 1 to 1.5 Units
Beginning Tennis I
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Introduces beginning tennis skills, including etiquette, rules, and basic techniques. Applies to Associate Degree. Transfer credit: CSU; UC*
**Physical Education**

**PE M11C -- 1 to 1.5 Units**  
*Intermediate Tennis*  
Prerequisite: PE M11A  
Class Hours: 8 to 13 lecture total; 24 to 40 activity total  
Expands strategies, rules and techniques of tennis, emphasizing both singles and doubles play. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M11D -- 1 to 1.5 Units**  
*Advanced Tennis*  
Prerequisite: PE M11C  
Class Hours: 8 to 13 lecture total; 24 to 40 activity total  
Expands experienced player’s individual techniques. Reviews rules and strategies for both singles and doubles play. Emphasizes tournament play. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M12 -- 2 Units**  
*Hiking and Backpacking*  
Prerequisite: None  
Class Hours: 1 lecture, 2 activity  
Uses lecture, field study and experience to introduce sport of hiking and backpacking. Covers conditioning, skills, information and resources. Emphasizes safety procedures. Requires field trips. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M14 -- 2 Units**  
*Pep Squad*  
Prerequisite: None  
Class Hours: 1 lecture, 3 lab  
Provides training and practice techniques necessary to be a cheerleader. *Applies to Associate Degree.*  

**PE M22A/B -- 1 to 3 Units Each**  
*Independent Studies in Physical Education*  
Prerequisite: A previous course in Physical Education  
Class Hours: 1 to 3 as arranged  
Allows an independent project (approved by instructor and dean) to expand knowledge of physical education through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. *Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.*  

**PE M23 -- 1 to 1.5 Units**  
*Field Hockey*  
Prerequisite: None  
Class Hours: 8 to 13 lecture total; 24 to 40 activity total  
Introduces fundamentals of field hockey, including individual skills (passing, receiving, and dribbling) as well as offensive and defensive tactics and team strategy. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M23C -- 1 to 1.5 Units**  
*Intermediate Baseball*  
Prerequisite: None  
Class Hours: 8 to 13 lecture total; 24 to 40 activity total  
Develops intermediate techniques and strategies for baseball. Emphasizes skills levels for use in games. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M23D -- 1 to 1.5 Units**  
*Advanced Baseball*  
Prerequisite: PE M23C  
Class Hours: 8 to 13 lecture total; 24 to 40 activity total  
Develops advanced skills in baseball, emphasizing methods and styles of play. Requires participation in full baseball program. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M24 -- 1 to 1.5 Units**  
*Intermediate Basketball*  
Prerequisite: None  
Class Hours: 8 to 13 lecture total; 24 to 40 activity total  
Develops intermediate techniques and strategies in basketball. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M24D -- 1 to 1.5 Units**  
*Advanced Basketball*  
Prerequisite: PE M24C or varsity high school experience  
Class Hours: 8 to 13 lecture total; 24 to 40 activity total  
Introduces advanced skills and techniques in basketball. Uses game experience to develop different styles and formats of play. Develops cardiovascular fitness. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M25C -- 1 to 1.5 Units**  
*Intermediate Football*  
Prerequisite: None  
Class Hours: 8 - 9 lecture total; 24 - 45 activity total  
Develops advanced skills in football. Introduces theory behind different styles of play. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M25D -- 1 to 1.5 Units**  
*Advanced Football*  
Prerequisite: None  
Class Hours: 8 to 13 lecture total; 24 - 45 activity total  
Introduces advanced techniques, emphasizing both the offensive and defensive passing game. Includes conditioning and speed improvement. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M26 -- 1 to 1.5 Units**  
*Team Sports*  
Prerequisite: None  
Class Hours: 8 to 13 lecture total; 24 to 40 activity total  
Introduces basic rules, techniques and strategies of various seasonal team sports, including soccer, softball, football and basketball. Provides practice in each sport. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M27A -- 1 to 1.5 Units**  
*Beginning Soccer*  
Prerequisite: None  
Class Hours: 8 to 13 lecture total; 24 to 40 activity total  
Develops skills, rules, techniques and strategies of soccer. Requires participation. Co-educational. *Applies to Associate Degree. Transfer credit: CSU; UC*  

**PE M27C -- 1 to 1.5 Units**  
*Intermediate Soccer*  
Prerequisite: None  
Class Hours: 8 to 13 lecture total; 24 to 40 activity total  
Develops intermediate skills and strategies of soccer. Requires participation. Co-educational. *Applies to Associate Degree. Transfer credit: CSU; UC*
**Physical Education**

**PE M27D -- 1 to 1.5 Units**

Advanced Soccer
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Develops advanced skills and strategies. Requires participation. Co-educational. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M28A -- 1 to 1.5 Units**

Beginning Softball
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Introduces the basic skills and strategies of fast-pitch softball. Requires participation. Co-educational. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M28C -- 1 to 1.5 Units**

Intermediate Softball
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Develops intermediate skills and strategies of fast-pitch softball. Requires participation. Co-educational. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M28D -- 1 to 1.5 Units**

Advanced Softball
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Develops advanced skills and strategies. Requires participation. Co-educational. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M29C -- 1 to 1.5 Units**

Intermediate Track
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Introduces intermediate techniques and strategies in track and field. Prepares for a competitive season, emphasizing skills needed for proficiency. Requires all varsity track candidates. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M29D -- 1 to 1.5 Units**

Advanced Track
Prerequisite: PE M29C
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Practices advanced skills and strategies of track and field for a competitive season. Required of all varsity track candidates. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M30A -- 1 to 1.5 Units**

Beginning Volleyball I
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Introduces basic rules and techniques of power volleyball. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M30C -- 1 to 1.5 Units**

Intermediate Volleyball
Prerequisite: PE M30A
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Practices the fundamental skills and strategies of volleyball, allowing two and three-player games. Requires participation. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M30D -- 1 to 1.5 Units**

Advanced Volleyball
Prerequisite: PE M30C
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Continues skills development for the advanced player, allowing two and three-player volleyball. Requires participation. Applies to Associate Degree. Transfer credit: CSU; UC*

**Combatives/Self-Defense**

**PE M36A -- 2 Units**

Analysis of Sexual Assault and Self-Defense
Prerequisite: None
Class Hours: 2 lecture, 1 activity
Reviews issues of personal assault and rape, reviewing readings and physical responses. Introduces self-defense techniques. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M38 -- 1 to 1.5 Units**

Wrestling
Prerequisite: None
Class Hours: 8 to 13 lecture total; 24 to 40 activity total
Introduces the basic skills of wrestling, including takedowns, rides, escapes and falls. Applies to Associate Degree. Transfer credit: CSU; UC*

**Intercollegiate Athletics**

(Passing a physical exam required for participation)

**PE M64 -- 3 Units**

Soccer-Men
Prerequisite: None
Recommended Preparation: Understanding of soccer skills, rules, and strategies.
Class Hours: 1 lecture, 9 activity
Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M65 -- 3 Units**

Soccer-Women
Prerequisite: None
Recommended Preparation: Understanding of soccer skills, rules, and strategies.
Class Hours: 1 lecture, 9 activity
Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC*

**PE M66 -- 3 Units**

Baseball-Men
Prerequisite: None
Recommended Preparation: Understanding of baseball skills, rules, and strategies.
Class Hours: 1 lecture, 9 activity
Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Course Name</th>
<th>Prerequisite</th>
<th>Recommended Preparation</th>
<th>Class Hours</th>
<th>Activity</th>
<th>Grade Level</th>
<th>Transfer Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE M67</td>
<td>3</td>
<td>Basketball-Men</td>
<td>None</td>
<td>Understanding of basketball skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M68</td>
<td>3</td>
<td>Basketball-Women</td>
<td>None</td>
<td>Understanding of basketball skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M69</td>
<td>3</td>
<td>Cross Country-Men</td>
<td>None</td>
<td>Understanding of cross country skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M70</td>
<td>3</td>
<td>Cross Country-Women</td>
<td>None</td>
<td>Understanding of cross country skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M71</td>
<td>3</td>
<td>Football-Men</td>
<td>None</td>
<td>Understanding of football skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M72</td>
<td>3</td>
<td>Golf</td>
<td>None</td>
<td>Understanding of golf skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M73</td>
<td>3</td>
<td>Softball-Women</td>
<td>None</td>
<td>Understanding of softball skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M74</td>
<td>3</td>
<td>Tennis-Men</td>
<td>None</td>
<td>Understanding of tennis skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M75</td>
<td>3</td>
<td>Tennis-Women</td>
<td>None</td>
<td>Understanding of tennis skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M76</td>
<td>3</td>
<td>Track-Men</td>
<td>None</td>
<td>Understanding of track skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M77</td>
<td>3</td>
<td>Track-Women</td>
<td>None</td>
<td>Understanding of track skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
<tr>
<td>PE M78</td>
<td>3</td>
<td>Volleyball-Women</td>
<td>None</td>
<td>Understanding of volleyball skills, rules, and strategies.</td>
<td>1 lecture, 9 activity</td>
<td>Highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit.</td>
<td></td>
<td>CSU; UC*</td>
</tr>
</tbody>
</table>
PE M79 -- 3 Units
Wrestling-Men
Prerequisite: None
Recommended Preparation: Understanding of wrestling skills, rules, and strategies.
Class Hours: 1 lecture, 9 activity highly competitive. Requires advanced skills, travel, and competition against other institutions. Demands time beyond normal load. May be taken three (3) times for credit. Applies to Associate Degree. Transfer credit: CSU, UC.

PE M80 -- 1 to 4 Units
Internship in Physical Education
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, UC credit limitations.

Instructional

PE M90 -- 2 Units
Introduction to Human Performance and Physical Education
Prerequisite: None
Class Hours: 2 lecture
Introduces aims, objectives and contemporary issues of Physical Education and Human Performance. Requires projects and fieldwork. Does NOT fulfill general education PE requirement. Applies to Associate Degree. Transfer credit: CSU, UC.

PE M91 -- 3 Units
Foundations of Fitness
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces physiological principles and other factors for the development and maintenance of optimal physical fitness. Requires observation and assistance in campus Fitness Laboratory. Does NOT fulfill general education PE requirement. Applies to Associate Degree. Transfer credit: CSU, UC.

Adaptive

PE M20 -- 1.5 Units
Adapted Physical Education
Prerequisite: None
Class Hours: 1 lecture, 2 activity
Meets special needs of students unable to participate in regular physical education activity classes. Provides individualized adapted fitness program. Requires evaluation by college physician to determine appropriate physical activity for each participant. May be taken four (4) times for credit. Applies to Associate Degree. 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

Most careers require bachelors or graduate degree.
Astronomer, Teacher, Patent Lawyer, Oceanographer

Dean
Floyd Martin, Phone (805) 378-1459

Faculty
Full-Time
Clinton Harper, Ron Wallingford

Part-Time
Paul Coleman

Counselors
Leshi Mai, Danita R. Redd

Physical Science Courses

PHSC M01 -- 3 Units
Principles of Physical Science
Prerequisite: MATH M03
Class Hours: 3 lecture
Introduces facts, principles and laws from physics and chemistry. Includes motion, force, energy, wave motion, electricity and magnetism, light, atomic structure, chemical bonding and chemical reaction rates, and equilibrium. PHSC formerly Phys. Applies to Associate Degree. Transfer credit: CSU, UC credit limitations -- no credit if taken after a college course in Astronomy, Chemistry, Geology or Physics.

PHSC M01L -- 1 Unit
Principles of Physical Science Laboratory
Prerequisite: Completion of or concurrent enrollment in PHSC M01
Class Hours: 3 lab
Provides hands-on experience with fundamental concepts from physics and chemistry. PHSC formerly Phys. Applies to Associate Degree. Transfer credit: CSU, UC.

PHSC M22A/B -- 0.5 to 3 Units Each
Independent Studies in Physical Science
Prerequisite: A previous course in Physical Science
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of physical science through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. PHSC formerly Phys. Applies to Associate Degree. 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

Most careers require bachelors or graduate degree.
Laser Specialist, Seismologist, Researcher, Oceanographer, Geochemist, Weather Forecaster, Astronomer, Medical Technologist, Biomedical Engineer, Plasma Physicist, Fusion Engineer, Nuclear Physicist, Physical Chemist, Statistician, Chemical Physicist

Dean
Floyd Martin, Phone (805) 378-1459

Faculty

Full-Time
Balazs Becht, Clinton Harper, Fred Meyer, Ron Wallingford

Part-Time
Sheri Azar, Paul Coleman, Hadi Darejeh, Philip Klutch, Youssef Kohanzadeh, Joseph McNeill

Counselors
Edna Ingram, Letisha Mai, Danita R. Redd

Physics Degree

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 that may be helpful towards the seeking of immediate employment.

Preparation for the Major:
- Mathematics — two years high school algebra plus trigonometry or MATH M05 and M07 or equivalent.
- Chemistry — one year high school chemistry or CHEM M12 or equivalent.
- Physics — one year high school physics or PHYS M10A or equivalent.
Physics students are strongly encouraged to take advantage of summer school class offerings.

Required Courses:
CHEM M01A General Chemistry I 6
MATH M25A Calculus with Analytic Geometry I 5
MATH M25B Calculus with Analytic Geometry II 5
MATH M25C Calculus with Analytic Geometry III 5
PHYS M20A/20AL Mechanics of Solids and Fluids/Lab 5
PHYS M20B/20BL Electricity and Magnetism/Lab 5
PHYS M20C/20CL Wave Motion, Heat, Optics & Modern Physics/Lab 5

Select one of the following options:
Physics Option
Core plus the following:
CHEM M01B General Chemistry II 6
MATH M35 Applied Differential Equations 3

Recommended Courses: CS M18/M18L; MATH M31

Applied Physics Option
Core plus the following:
CS M10/M10L Intro to Computer Science/Pascal/Lab 4
CS M18/M18L Computer Programming - FORTRAN/Lab 4
ENGR M12 Engineering Materials 3
MATH M35 Applied Differential Equations 3

Recommended Courses: CHEM M1B; MATH M31

Electro-Optics Option
Core plus the following:
CHEM M01B General Chemistry II 6
ET M10 Introduction to Lasers and Fiber Optics 2
MATH M31 Introduction to Linear Algebra 3
MATH M35 Applied Differential Equations 3

Recommended Courses: CS M10/M10L; ENGR M20/M20L

TOTAL minimum units required in major area 45-50

Suggested Course Sequence:

Physics Option
First Semester
CHEM M01A 6
MATH M25A 5
Total 11

Second Semester
CHEM M01B 6
MATH M25B 5
PHYS M20A/M20AL 5
Total 16

Third Semester
MATH M35 5
PHYS M20B/M20BL 5
Total 10

Fourth Semester
MATH M35 3
PHYS M20C/M20CL 5
Total 8

164


Applied Physics Option

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Electro-Optics Option

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

Physics Courses

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<tr>
<th>PHYS M01 -- 3 Units</th>
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<tbody>
<tr>
<td>Descriptive Physics</td>
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<tr>
<td>Prerequisites: None</td>
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<tr>
<td>Class Hours: 3 lecture</td>
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Introduces basic concepts of physics, using everyday examples. Includes classical mechanics, properties of matter, heat, sound, electricity and magnetism, light, atomic and nuclear physics, relativity, and astrophysics. Designed for non-science majors. Requires little math. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC. (No credit if taken after PH M10A or PH M20A.)

<table>
<thead>
<tr>
<th>PHYS M01L -- 1 Unit</th>
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<tbody>
<tr>
<td>Descriptive Physics Laboratory</td>
</tr>
<tr>
<td>Prerequisite: Completion of or concurrent in enrollment in PHYS M01</td>
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<tr>
<td>Class Hours: 3 lab</td>
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</table>

Provides hands-on experience with elements of classical and modern physics for non-science majors. Covers mechanics, electricity and wave motion as well as heat, light, and atomic and nuclear physics. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC

<table>
<thead>
<tr>
<th>PHYS M05 -- 3 Units</th>
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<tbody>
<tr>
<td>Radiation Physics</td>
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<tr>
<td>Prerequisite: MATH M01</td>
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<tr>
<td>Corequisite: PHYS M05L</td>
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<td>Class Hours: 3 lecture</td>
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Introduces mechanics, electricity, magnetism and atomic physics, emphasizing fundamentals of x-ray production. Primarily designed for Radiologic Technology majors. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU

<table>
<thead>
<tr>
<th>PHYS M05L -- 1 Unit</th>
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<tbody>
<tr>
<td>Radiation Physics Laboratory</td>
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<tr>
<td>Prerequisite: MATH M01</td>
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<tr>
<td>Corequisite: PHYS M05</td>
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<td>Class Hours: 3 lab</td>
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Provides hands-on experience applying principles of mechanics, electricity and magnetism as well as atomic and x-ray physics. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU

<table>
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<th>PHYS M10A -- 4 Units</th>
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<tbody>
<tr>
<td>General Physics I</td>
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<tr>
<td>Prerequisite: MATH M06 or MATH M07 or equivalent skills measured by college assessment process</td>
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<tr>
<td>Class Hours: 4 lecture</td>
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Introduces mechanics of solids and fluids, heat, and wave motion. Designed for non-majors who need a non-calculus physics course. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations. CAN: PHYS 2 (PHYS M10A + M10AL)

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<tr>
<th>PHYS M10AL -- 1 Unit</th>
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<tr>
<td>General Physics I Laboratory</td>
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<tr>
<td>Prerequisite: Concurrent enrollment in PHYS M10A</td>
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<td>Class Hours: 3 lab</td>
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Provides hands-on experience with classical mechanics and heat and wave motion. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations. CAN: PHYS 2 (PHYS M10A + M10AL)

<table>
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<tr>
<th>PHYS M10B -- 4 Units</th>
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<tbody>
<tr>
<td>General Physics II</td>
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<tr>
<td>Prerequisite: PHYS M10A</td>
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<td>Class Hours: 4 lecture</td>
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Introduces electricity, magnetism, optics and modern physics. Designed for non-majors, requiring non-calculus based physics course. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations. CAN: PHYS 4 (PHYS M10B + M10BL)

<table>
<thead>
<tr>
<th>PHYS M10BL -- 1 Unit</th>
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<tr>
<td>General Physics II Laboratory</td>
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<tr>
<td>Prerequisites: PHYS M10A/M10AL</td>
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<tr>
<td>Corequisite: PHYS M10B</td>
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<tr>
<td>Class Hours: 3 lab</td>
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Provides hands-on experience with electricity, magnetism, optics and modern physics. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations. CAN: PHYS 4 (PHYS M10B + M10BL)
PHYS M20A -- 4 Units
Mechanics of Solids and Fluids
Prerequisites: MATH M25A and PHYS M10A or one year of high school physics
Corequisite: MATH M25B
Class Hours: 4 lecture
Introduces statics and dynamics of particles and rigid bodies, hydrostatics and hydrodynamics. Designed for majors in physics, engineering, mathematics, chemistry, computer science and biology. Requires use of calculus. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations. CAN: PHYS 8 (PHYS M20A + M20AL), PHYS SEQ B (PHYS M20A, M20AL + M20B, M20BL + M20C, M20CL)

PHYS M20AL -- 1 Unit
Mechanics of Solids and Fluids Laboratory
Prerequisites: MATH M25A and PHYS M10A
Corequisites: MATH M25B, PHYS M20A
Class Hours: 3 lab
Provides hands-on experience with dynamics of particles and rigid bodies, hydrostatics, and hydrodynamics. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations. CAN: PHYS 8 (PHYS M20A + M20AL)

PHYS M20B -- 4 Units
Electricity and Magnetism
Prerequisites: MATH M25B and PHYS M20A
Corequisite: MATH M25C
Class Hours: 4 lecture

PHYS M20BL -- 1 Unit
Electricity and Magnetism Laboratory
Prerequisites: MATH M25B and PHYS M20A/M20AL
Corequisites: MATH M25C, PHYS M20B
Class Hours: 3 lab
Provides hands-on experience in field theory, emphasizing electronic measurements, A.C./D.C. circuits, and basic active analog circuits and devices. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations. CAN: PHYS 12 (PHYS M20B + M20BL)

PHYS M20C -- 4 Units
Wave Motion, Heat, Optics and Modern Physics
Prerequisites: MATH M25C and PHYS M20B
Class Hours: 4 lecture
Introduces wave motion (sound and light), physical and isometrical optics, thermodynamics, and selected topics in quantum mechanics and special relativity. Demonstrates problem solving with calculus and differential equations. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations. CAN: PHYS 8 (PHYS M20C + M20CL), PHYS SEQ B (PHYS M20A, M20AL + M20B, M20BL + M20C, M20CL)

PHYS M20CL -- 1 Unit
Wave Motion, Heat, Optics and Modern Physics Laboratory
Prerequisites: MATH M25C and PHYS M20B/M20BL
Corequisite: PHYS M20C
Class Hours: 3 lab
Provides hands-on experience with wave motion, heat, optics and modern physics. Stress fundamental principles and use of modern lab instrumentation. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations. CAN: PHYS 8 (PHYS M20C + M20CL)

PH M22A/B -- 0.5 to 3 Units Each
Independent Studies in Physics
Prerequisite: A previous course in Physics
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of physics through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

PHYS M80 -- 1 to 4 Units
Internship in Physics
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisor provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the internships Office: Call (805) 378-1400, ext. 1668. May be taken four times for credit. PHYS formerly PH. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

POLITICAL SCIENCE
See courses in Biological Sciences

PHYSIOLOGY

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

Most careers require bachelors or graduate degree.
Government Official, Journalist, Foreign Diplomat, Teacher, Attorney, Politician

Dean

AI Nordquist, Phone (805) 378-1446

Faculty

Full-Time
Gerald Bridgeman, Robert Herman, Jack Miller

Part-Time
Craig Flanery, Greg Freeland, Luis Gomez, Rodrigo Hernandez, Donna Kanno

Counselors
Mike Johnson, Ofelia Romero-Motilagh
Political Science Courses

POLS M01 -- 3 Units
Introduction to Government
Prerequisites: None
Class Hours: 3 lecture
Introduces basic concepts within political science, emphasizing American federal, state and local government and politics. Requires research and special writing topics. Designed for social and behavioral science majors. Satisfies Title V United States Constitution requirement as well as California state and local government requirement. POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU; UC

POLS M02 -- 3 Units
Comparative Government
Prerequisites: None
Class Hours: 3 lecture
Examines political culture, recruitment and articulation interests, political institutions, and sources/content of public policy for various governments. Draws examples from Eastern and Western Europe and Asia as well as from pre-industrial societies. POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU; UC

POLS M03 -- 3 Units
American Government and Politics
Prerequisites: None
Class Hours: 3 lecture
Introduces principles and problems of American Government and its political process, emphasizing national government. Satisfies Title V United States Constitution requirement as well as California state and local government requirement. POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU; UC

POLS M04 -- 3 Units
International Relations
Prerequisites: None
Class Hours: 3 lecture
Explores relationships between sovereign units, emphasizing international organizations, theoretical proposals toward and possibilities for world peace, mechanics of politics among nations, and formation of American foreign policy. Focuses on relationship between domestic and foreign politics and the cultural origins of policy. POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU; UC

POLS M07 -- 3 Units
Minority Groups
Prerequisites: None
Class Hours: 3 lecture
Introduces political problems often faced by racial and ethnic minorities in the United States, emphasizing the impact and consequences of racism, discrimination and sexism. Explores political process as a vehicle for improving majority-minority relations and for maintaining social equilibrium. POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU; UC

POLS M08 -- 3 Units
Political Patterns in the U.S.
Prerequisites: None
Class Hours: 3 lecture
Introduces fundamental principles of U.S. Government, focusing on the state and local government of the Southwest. Emphasizes the legislative process, political parties, pressure groups, local implementation policies and the political participation of Mexican-Americans. (Same course as Chicano Studies M08). POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU; UC

POLS M10 -- 3 Units
Public Administration and Policy Development
Prerequisite: Prior course in Social Science
Class Hours: 3 lecture
Introduces public administration, exploring the decisions, tasks, and implementations of the public bureaucracy. Reviews administrative organizations, including personnel management, budget administration, public relations and government-service careers. POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU

POLS M11 -- 3 Units
Law, Government, and Individual Rights
Prerequisites: None
Class Hours: 3 lecture
Uses Constitutional Law to analyze origins, workings, procedures, and policies of American federal and state governments. Emphasizes the judicial system as well as the privileges, rights, and obligations of individuals. Includes review of Supreme Court decisions. POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU; UC

POLS M22A/B -- 1 to 3 Units Each
Independent Studies in Political Science
Prerequisite: A previous course in Political Science
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of political science through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

POLS M60A-Z -- 1 to 3 Units Each
Topics in Political Science
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

POLS M60C -- 3 Units
Politics in the Middle East
Prerequisites: None
Class Hours: 3 lecture
Explores political developments and changes in the Middle East, emphasizing the Arab states, Israel, Iran and Turkey. Reviews the rich historical background of region, including cultural contributions and political conflicts before the 20th century, as well as current political processes, economic developments, and major problems. POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

POLS M80 -- 1 to 4 Units
Internship in Political Science
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1600, ext. 1668. May be taken four (4) times for credit. POLS formerly Pol Sc. Applies to Associate Degree. Transfer credit: CSU, credit limitation.
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

Most careers require a bachelor's or graduate degree.
Psychologist, Administrative Assistant, Urban Renewal Specialist, Personnel Assistant, Social Insurance Representative, Veterans Claims Examiner, Rehabilitation Counselor, Social Service Analyst, Employee Relations Specialist, Employee Development Specialist, Recreation Specialist, Social Worker, Family Counselor, Mental Health Officer, Program Analyst, Sales Personnel, Advertising Executive, School Psychologist, Probation Officer

Dean

Al Nordquist, Phone (805) 378-1445

Faculty

Full-Time
Frank Bianchino, Judith Farrell, Carole Ginet, Lynn Meschan, Steven Pollock, Sally Ponce-O'Rourke, Carol Woodward

Part-Time
Edward Arney, Dan Baldwin, Bobbie Berg, Deena Case-Pall, Diane DeMarco, Pat Devita-Vessa, Michael Gardner, Michelle LaBrie, John Lanahan, Jennifer Nepper, Deanna Ribeira, Dean Richards, Norma Runyan, Corie Skolnick

Counselors
Frank Bianchino, Mike Johnson, Mary Martin

Psychology Courses

PSY M01 -- 3 Units
Introduction to Psychology
Prerequisite: None
Class Hours: 3 lecture
Introduces the areas of history and systems, research methodology, biological bases of behavior, sensation and perception, motivation and emotion, learning and memory, personality, personality and social psychology, behavior disorders (psychopathology) and treatments, human sexuality, life span development, and social and environmental psychology. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC. QN: PSY 2

PSY M02 -- 3 Units
Introduction to Behavioral Neuroscience
Prerequisite: PSY M01A
Class Hours: 3 lecture
Introduces neuropsychological bases for basic brain-behavior concepts involving structure and function of the nervous system, neural conduction and synaptic transmission, psychopharmacology, structure of the nervous system, brain lateralization, and perception, internal body states, sexual behavior, emotional behavior, sleep and biological rhythms, biology of learning and memory, and psychopathological disorders. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC.

PSY M03 -- 3 Units
Psychology of Interpersonal Relationships
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Introduces psychological principles involved in human relationships. Combines experiential and theoretical approaches to increase awareness, understanding, and decision-making. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU

PSY M04 -- 3 Units
Child Psychology
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Focuses on the basic principles of developmental psychology, exploring the personal, societal, and cultural forces important from birth to puberty. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC

PSY M05 -- 3 Units
Social Psychology
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Introduces social relationships, emphasizing interpersonal attraction; social perception; long-term relationships; pre-social behavior; attitude formation and changes; and the nature of prejudice, aggression, and conformity. Same course as Sociology M5. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC

PSY M06 -- 3 Units
Introduction to Behavioral Research Methods
Prerequisite: PSY M01A
Class Hours: 3 lecture
Introduces basic research concepts and principles of behavioral science: descriptive and experimental research approach problems; identification, hypothesis formation and testing; experimental variables and controls; validity and reliability; experimental, quasi-experimental and single-participant research designs; and research ethics. Requires research study and manuscript using APA guidelines and format. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC

PSY M07 -- 3 Units
Developmental Psychology (Life Span)
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Focuses on the physical, emotional, cognitive, social, and cultural aspects of development from conception to death. Emphasizes normative behaviors and developmental stages over the life span. Reviews developmental theories and contemporary issues. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC. Maximum credit allowed—one course if combined with Child Development M30.
PSY M08 -- 3 Units
Abnormal Psychology
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Surveys field of abnormal behavior by reviewing patterns, causes, and history of maladaptive behavior; clinical assessment using the current Diagnostic and Statistical Manual; therapies; and prevention of behavioral disorders. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC

PSY M09 -- 3 Units
Introduction to Gerontology
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Introduces physical, psychological, sociological, and economic aspects of aging, applying theories to current issues and problems facing the older population. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed is one course if combined with PSY M30.

PSY M10 -- 3 Units
Dying and Death
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Explores issues and decisions concerned with dying and death over the life span, including historical and cross-cultural perspectives, death socialization, medical ethics and the health-care system, legal issues and after-life concerns. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC

PSY M11 -- 3 Units
Psychology of Assertive Communication
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Introduces open, honest, direct communication and behavior; emphasizing perceptions and emotions, verbal and non-verbal communication, defense mechanisms, and conflict resolution. Examines problem areas and alternate behaviors, exploring how to express anger, change behavior, make requests, say “No,” cope with criticism and resolve conflict. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU

PSY M12 -- 3.5 Units
Animal Behavior
Prerequisite: None
Class Hours: 3 lecture, 1.5 lab
Introduces the study of animal behavior, emphasizing learning theory and classical and operant conditioning. Applies concepts of ethology and behavior modification to the maintenance and training of animals in captivity. Requires training a rat and conducting an observational research project on captive animals. (Same course as EATM M04). PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU

PSY M13 -- 3 Units
Human Sexuality
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Explores psychological, biological, and sociological aspects of human sexual behavior, including sexual values, roles and lifestyles. Includes contraception, pregnancy, sexually transmitted diseases, sexual dysfunctions and treatments. Presents course content in an explicit, open, scientific, and thoughtful manner. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC

PSY M14 -- 3 Units
Cross-Cultural Psychology
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Explores the impact of cultural and social influences on the psychological development of ethnic groups by integrating traditional theoretical approaches and current cross-cultural research and theory in the study of Latinos, Asian-Americans, African-Americans and Native Americans. Reviews definitions of culture; ethnic group demographics; family and gender roles; collectivism and individualism; research methodologies; identity formation and ethnicity; stereotypes, prejudice and discrimination; cognition and intelligence; language, bilingualism and non-verbal communication; psychosocial stressors; behavioral disorders, clinical assessment and cross-cultural counseling techniques; and improving intercultural interactions. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC

PSY M15 -- 3 Units
Psychology and Criminal Behavior
Prerequisite: None
Class Hours: 3 lecture
Introduces the factors, concepts and theories, and characteristics associated with the psychology of criminal behavior and victimology. PSY formerly PSYCH. Applies to Associate Degree.

PSY M16 -- 3 Units
Personality Theories
Prerequisite: None
Class Hours: 3 lecture
Reviews the major concepts and methods of personality theories and how they relate to the development and formation of personality. PSY formerly PSYCH. Applies to Associate Degree.

PSY M22A/B -- 1 to 3 Units Each
Independent Studies in Psychology
Prerequisite: A previous course in Psychology
Class Hours: 1 to 3 as arranged
Allows an independent study (approved by instructor and dean) to expand knowledge of psychology through research, lab work or field trips. Includes on-the-job work with instructor. May be taken for a maximum of 6 units. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.
PSY M30 -- 3 Units
Psychological Aspects of Aging
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours. Explores psychodynamic behaviors over the life span, focusing on the development and psychological needs of the aging adult as well as others' responses to these needs. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC maximum credit allowed — one course if combined with PSY M9.

PSY M60A-Z -- 0.5 to 3 Units Each
Topics in Psychology
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes.

Developed topics include:

PSY M60A -- 1 Unit
Biofeedback: Theory and Technique
Prerequisite: None
Class Hours: 16 lecture total
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 15 contact hours. Introduces theory, research, and practical applications of biofeedback. Provides academic discussion as well as practical training on biofeedback equipment. Only offered credit/no-credit. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

PSY M60V -- 3 Units
The Vietnam War
Prerequisite: None
Class Hours: 5 lecture
Examines circumstances leading to American involvement in Vietnam, the war itself, and the resulting consequences. Uses literature and film to explore historic, psychological, and pop-cultural perspectives. Same course as HIST M60V and HUM M60V. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

PSY M80 -- 1 to 4 Units
Internship in Psychology
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. PSY formerly PSYCH. Applies to Associate Degree. Transfer credit: CSU; credit limitations.

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 that 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, Ador, Anchor (News), Announcer, Assistant Director, Art Director, Audio/Video Engineer, Camera Operator, Executive Producer, Floor Manager/Lighting Director, Lighting Assistant, Media-Librarian, News Director, News Writer, Reporter, Advertising Copy Writer, Makeup Specialist/Artist, ITV Specialist, Program Manager/Director, Publicity/Promotion Assistant, Public Relations Assistant, Property Master/Grip, Radio-Television Director, Operations Manager, Technical Director, Traffic Director, Research Specialist, Teleplay Writer, Videotape Editor, Station Manager/General Manager, Advertising Sales Director/Manager

Dean
Sid Adler, Phone (805) 378-1443

Faculty

Full-Time
Al Miller, Les Wiedler

Part-Time
Steve Gutierrez, Liam O'Brien, Frank Roach, Richard Studebaker, Charles Whitten, Thomas Witt

Counselor
Don Henderson

Radio/Television Degree (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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>RT M01</td>
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<td>RT M02A</td>
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<td>RT M02B</td>
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<td>RT M03A</td>
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<td>RT M05</td>
<td>3</td>
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<tr>
<td>RT M07A</td>
<td>3</td>
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</tbody>
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Required Additional Courses:

Select nine (9) units from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>HUM M03</td>
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<td>HUM M04</td>
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<td>PHOT M01A</td>
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<td>RT M03A</td>
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<td>RT M07B</td>
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<tr>
<td>RT M08</td>
<td>3</td>
</tr>
<tr>
<td>RT M12</td>
<td>3</td>
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</tbody>
</table>

TOTAL minimum units required in major area 27

See Degree Requirements and Transfer Information section for General Education requirements.
Radio/Television Courses

RT M01 -- 3 Units
Media and Society
Prerequisite: None
Class Hours: 3 lecture
Surveys history and nature of print and electronic media in America, examining social, political and cultural implications. (Same course as JOUR M01). Applies to Associate Degree. Transfer credit: CSU; UC. CAN: JOURN 4

RT M02A -- 3 Units
Broadcast Studio Operations
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces basic equipment and operations of broadcast studio and control room. Emphasizes studio production, including lighting, camera operation, switcher-fader operation, graphics, videotape and audio operations. Reviews practical applications of program patterns, studio procedures, and ancillary activities such as set building and floor management. Applies to Associate Degree. Transfer credit: CSU

RT M02B -- 3 Units
Electronic Field Production/Post Production
Prerequisite: RT M02A
Class Hours: 2 lecture, 3 lab
Introduces use and operation of remote television and editing equipment. Emphasizes lighting, audio, and graphics. Requires field productions as well as extensive post-production activities. Applies to Associate Degree. Transfer credit: CSU

RT M03A -- 3 Units
Television Production Workshop
Prerequisite: RT M02B
Class Hours: 2 lecture, 3 lab
Introduces intermediate-level work in production, including camera work, technical direction and lighting. Emphasizes creation of new program concepts and types. Requires producing an experimental TV program. Applies to Associate Degree. Transfer credit: CSU

RT M03B -- 3 Units
Television Directing and Editing
Prerequisite: RT M03A
Class Hours: 2 lecture, 3 lab
Introduces advanced directing and editing skills appropriate for special projects and experimental television programs. Requires producing variety of television programs. Applies to Associate Degree. Transfer credit: CSU

RT M05 -- 3 Units
Radio-Television Script Writing
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces the fundamentals of script format and professional methods as well as the ethics and restrictions involved in the broadcasting media. Includes the preparation and analysis of dramatic scripts, program formats, public service announcements, local news, commercials, continuity, discussion programs, special events, talks and interviews. (Same course as ENGL M05). Applies to Associate Degree. Transfer credit: CSU

RT M07A -- 3 Units
Radio Production Workshop
Prerequisite: Completion of or concurrent enrollment in RT M01
Class Hours: 2 lecture, 3 lab
Integrates various radio broadcasting functions, including announcing, acting, disc jockeying, basic writing, program direction and production, advertising, radio interviewing, and station operations. Applies to Associate Degree. Transfer credit: CSU

RT M07B -- 3 Units
Advanced Radio Production
Prerequisite: RT M07A
Class Hours: 2 lecture, 3 lab
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. Introduces various background skills needed as a radio personality, including working with and developing music formats and editing, re-writing, and gathering news. Provides practical preparation for entry-level positions outside of top 20 radio markets, including creation of audition tape and resume. Transfer credit: CSU

RT M08 -- 3 Units
Voice and Diction
Prerequisite: None
Class Hours: 3 lecture
Introduces theory and practice of voice control, emphasizing correct pronunciation, breathing control techniques, and regional and foreign dialects. Especially useful for those in theatre, forensics and broadcasting. May be taken two (2) times for credit. (Same course as THA M03 and SPCH M03). Transfer credit: CSU; UC. CAN: DRAM 6

RT M09 -- 3 Units
Acting for Film and TV
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces techniques pertinent to film and television acting, including blocking, movement, rapid line learning, and use of microphones. Includes performance in student-directed films and television shows. May be taken four (4) times for credit. (Same course as THA M09). Transfer credit: CSU; UC

RT M12 -- 3 Units
Broadcast Journalism
Prerequisite: None
Class Hours: 3 lecture
Provides advanced practice in preparation of radio and television newscasts. Develops interviewing skills. Includes writing original newscast copy and editing and rewriting wire service copy for on-air purposes. Requires use of remote recording equipment. (Same course as JOUR M12). Transfer credit: CSU

RT M22A/B -- 1 to 3 Units Each
Independent Studies in Radio/Television
Prerequisite: A previous course in Radio/Television
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of radio/television through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU

RT M60A-Z -- 1 to 3 Units Each
Topics in Radio/Television
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes. Applies to Associate Degree. Transfer credit: CSU.
RT M80 -- 1 to 4 Units
Internship in Radio/Television
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations.

READING
See courses in English

RADIOLOGIC TECHNOLOGY
See courses in Health Sciences

RECREATION
Dean
Al Nordquist, Phone (805) 378-1446

Faculty
Full-Time
Ron Haileran
Counselor
Donna Allyn

Recreation Courses
REC M01 -- 3 Units
Programs and Leadership
Prerequisite: None
Class Hours: 3 lecture
Introduces the philosophies, organization, promotion and leadership of various types of recreation programs, agencies and organizations, emphasizing effective leadership techniques and program services. Applies to Associate Degree. Transfer credit: CSU; UC pending.

SCIENCE AND TECHNOLOGY
Science and Technology provide students with an introduction to a variety of significant topics and experiments in the pure and applied sciences. The purpose of each class is to increase interest in science and technology and to foster exploration of challenging careers.
Dean
Floyd Martin, Phone (805) 378-1459

Science and Technology Courses
TECH M01/1 -- 0.5 to 2 Units Each
Introduction to High Technology
Prerequisites: None
Class Hours: 4-16 lecture, 12-48 lab total as arranged
Introduces high technology subjects appropriate to and taught by various college departments. Topics selected to meet established needs and interests. Each course may be taken for a maximum of four (4) units. TECH formerly SCTECH. Applies to Associate Degree.

SIGN LANGUAGE
Dean
Rene Rodriguez, Phone (805) 378-1404

Faculty
Part-Time
Marilyn Carpenter, Cintia Nuttall
Counselor
Ofelia Romero-Motlagh

Sign Language Courses
SL M01 -- 3 Units
Beginning American Sign Language I
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Introduces fundamentals of American Sign Language, including basic vocabulary and finger spelling. Emphasizes grammatical structure and comprehension. Explores deaf culture. Applies to Associate Degree. Transfer credit: CSU, UC

SL M02 -- 3 Units
Beginning American Sign Language II
Prerequisite: SL M01
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Continues study of American Sign Language, emphasizing comprehension, grammar, expression and vocabulary. Introduces basic anatomy of the ear and audiometry. Applies to Associate Degree. Transfer credit: CSU, UC

SOCIAL SCIENCES
The major in Social Sciences permits students to explore a broad spectrum of the courses in order to obtain an acquaintance with 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.
Dean
Al Nordquist, Phone (805) 378-1446
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

Most careers require bachelors or graduate degree.

Metropolitan Development Representative, Model Cities
Representative, Public Relations Consultant, Employment Counselor, Interviewer/Researcher, Urban Renewal Representative, Correctional Counselor, Industrial Sociologist, Disability Insurance Trainee, Personnel Management Specialist, Youth Counselor, Statistician, Criminologist, Social Worker, Case Worker, Counselor, Population Analyst, Probation Officer, Recreation Specialist, Claims Examiner

Dean

Al Nordquist, Phone (805) 378-1445
SOC M05 -- 3 Units
Social Psychology
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Introduces social relationships, emphasizing interpersonal attraction; person perception; long-term relationships; pro-social behavior; attitude formation and changes; and the nature of prejudice, aggression, and conformity. (Same course as PSY M05). Applies to Associate Degree. Transfer credit: CSU; UC

SOC M06 -- 3 Units
The Chicano in Contemporary Society
Prerequisite: None
Class Hours: 3 lecture
Explores the socioeconomic and political problems confronting the Chicano, emphasizing proposed solutions, similarities with other groups and the effects of social institutions on ethnic communities. (Same course as CHST M01). Applies to Associate Degree. Transfer credit: CSU; UC

SOC M07 -- 3 Units
Women in American Society
Prerequisite: None
Class Hours: 3 lecture
Investigates similarities and differences in women's experiences and roles in shaping American culture. Focuses on gendered ethnicity and the contributions of Anglo, African-American, Native American and Latino women. Examines feminism and other sociological theories and methodologies regarding gender. Applies to Associate Degree. Transfer credit: CSU; UC

SOC M08 -- 3 Units
Ethnicity, Class, and Gender
Prerequisite: None
Class Hours: 3 lecture
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Examines discrimination and inequality within a society that values equality, freedom, and justice. Explores the diversity in American society and the nature of relationships among racial and ethnic groups. Reviews the variety of experiences within each group, paying close attention to how the racial and ethnic experience varies between males and females. Applies to Associate Degree. Transfer credit: CSU; UC

SOC M22A/B -- 1 to 3 Units Each
Independent Studies in Sociology
Prerequisite: A previous course in Sociology
Class Hours: 1 to 3 as arranged
Approved for Continuing Education hours by the California Board of Registered Nursing, provider number 02811 for 45 contact hours.
Allows an independent project (approved by instructor and dean) to expand knowledge of sociology through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

SOC M60A-Z -- 0.5 to 3 Units Each
Topics in Sociology
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the Schedule of Classes.

Developed topics include:

SOC M60A -- 3 Units
Sociological Field Methods
Prerequisite: Completion or concurrent enrollment in SOC M01 or SOC M02
Class Hours: 1 lecture, 6 lab
Expands knowledge of sociological theory through classroom and on-site involvement within governmental and/or social agencies. Transfer credit: CSU; UC credit limitations.

SOC M80 -- 1 to 4 Units
Internship in Sociology
Prerequisite: Completion or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged.
Provides on-the-job learning to enhance course work under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1460, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU, credit limitations

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 principal area of employment, other careers may be found in interpreting, translating, research, diplomacy, libraries, and the publishing business.

Career Opportunities

Most careers require bachelors or graduate degree.

Dean
Rene Rodriguez, Phone (805) 378-1404

Faculty

Full-Time
Grace Bodhaine, Raquel Olivera, Helga Winkler

Part-Time
Victoria Albright, Celia Alexander, Maria Brack, Damiano Marano, Sandra Parada, Eva Ramirez, Renee Rosenberg, Krya Sove, Margaret Szymanski, Eduard Thron

Counselor
Ofelia Romero-Motlagh

Soc 115 - Crime & Criminal Behavior
CSU pending

Soc 16 - Soc. of Deviant Beh.
CSU; UC pending

Soc 17 - Soc. of Delinquency
CSU; UC pending
Spanish Degree

Associate in Arts Degree
This program provides students with a curriculum design that is preparatory for transfer to most universities.

Required Courses: Units
SPAN M01 ..... Elementary SPAN M01 or SPAN M01A/B ..... 4
or
SPAN M05 ..... Spanish for Native Speakers 1 ..... 4
SPAN M02 ..... Elementary Spanish II ..... 4
or
SPAN M06 or SPAN M02A/B ..... 4
SPAN M03 ..... Intermediate Spanish I ..... 4
SPAN M04 ..... Intermediate Spanish II ..... 4

Required Additional Courses: Units
Select two more courses (6 or 7 units).
Choose one from group A and one from Group B:

GROUP A
ANTH M04 ..... Chicano Culture ..... 3
CHST M01/SOC M06 ..... The Chicano in Contemporary Society ..... 3
CHST M02 ..... Chicano Culture ..... 3
CHST M03 ..... Chicano Issues/La Raza ..... 3
CHST M04/HIST M04 ..... History of the Southwest ..... 3
CHST M08 ..... Political Patterns in the US ..... 3

GROUP B
FREN M01 ..... Elementary French ..... 4
FREN M02 ..... Elementary French II ..... 4
FREN M03 ..... Intermediate French I ..... 4
FREN M04 ..... Intermediate French II ..... 4
GERM M01 ..... Elementary German I ..... 4
GERM M02 ..... Elementary German II ..... 4
GERM M03 ..... Intermediate German I ..... 4
GERM M04 ..... Intermediate German II ..... 4
HEB M01 ..... Hebrew I ..... 4
HEB M02 ..... Hebrew II ..... 4
ITAL M01 ..... Elementary Italian I ..... 4
ITAL M02 ..... Elementary Italian II ..... 4
JAPN M01 ..... Elementary Japanese I ..... 4
JAPN M02 ..... Elementary Japanese II ..... 4
JAPN M03 ..... Intermediate Japanese I ..... 4
SPAN M01 ..... Intermediate Conversational Spanish ..... 3
HIST M09 ..... Latin American History ..... 3
HIST M14 ..... Ethnicity and Gender ..... 3
HUM M05 ..... Contemporary Foreign Film ..... 3
ENGL M30 ..... Masterpieces of World Literature I ..... 3
ENGL M31 ..... Masterpieces of World Literature II ..... 3
ENGL M45 ..... Hispanic-American Literature ..... 3
SL M01 ..... Sign Language 1 ..... 3
SL M02 ..... Sign Language 2 ..... 3
SOC M08 ..... Ethnicity, Class, and Gender ..... 3

TOTAL minimum units required in major area ..... 22

(In the case that a student places out of SPAN M11-M4, counseling with an instructor is necessary and the student must make arrangements to take Independent Studies in Spanish (SPAN M21/2B, 1-3 units).
See Degree Requirements and Transfer Information section for General Education Requirements.

Spanish Courses

SPAN M01 -- 4 Units
Elementary Spanish I
Prerequisite: None
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education by the California Board of Registered Nursing, provider number 02811 for 60 contact hours.
Introduces Spanish language, culture, history and people, emphasizing speaking, understanding, reading and writing skills. Requires individualized work in the lab each week. SPAN formerly SPN. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: SPAN 2 SPAN SEQ A (SPAN M01 + M02)

SPAN M01A -- 2 Units
Elementary Spanish
Prerequisite: None
Class Hours: 2 lecture; 0.5 lab as arranged
SPAN M01A covers first half of SPAN M01. Introduces Spanish language and culture, emphasizing skills and knowledge necessary for speaking and writing Spanish. Requires individualized work in the lab each week. Cannot receive credit for SPAN M01A/B sequence and SPAN M01. SPAN formerly SPN. Applies to Associate Degree. Transfer credit: CSU; UC.

SPAN M01B -- 2 Units
Elementary Spanish
Prerequisite: SPAN M01A or one year of high school Spanish
Class Hours: 2 lecture; 0.5 lab as arranged
SPAN M01B covers second half of SPAN M01. Introduces Spanish language and culture, emphasizing skills and knowledge necessary for speaking, reading and writing. Requires individualized work in the lab each week. Cannot receive credit for SPAN M01A/B sequence and SPAN M01. SPAN formerly SPN. Applies to Associate Degree. Transfer credit: CSU; UC.

SPAN M02 -- 4 Units
Elementary Spanish II
Prerequisite: SPAN M01 or two years of high school Spanish (C or better)
Class Hours: 4 lecture; 1 lab as arranged
Approved for Continuing Education by the California Board of Registered Nursing, provider number 02811 for 60 contact hours.
Further explores Spanish language and culture, emphasizing people and history as well as speaking, reading and writing proficiency. Requires individualized work in the lab each week. SPAN formerly SPN. Applies to Associate Degree. Transfer credit: CSU; UC (SPAN M02 + M06 combined. Maximum credit one course). CAN: SPAN 4; SPAN SEQ A (SPAN M01 + M02)

SPAN M02A -- 2 Units
Elementary Spanish 2A
Prerequisite: SPAN M01 or SPAN M01A/B or two years high school Spanish
Class Hours: 2 lecture; 0.5 lab as arranged
Covers first half of SPAN M02. Introduces Spanish language and culture, emphasizing skills and knowledge necessary for speaking and writing Spanish. Requires individualized work in the lab each week. Cannot receive credit for SPAN M02A/B sequence and SPAN M02. SPAN formerly SPN. Applies to Associate Degree. Transfer credit: CSU; UC pending.
SPAN M02B -- 2 Units
Elementary Spanish 2B
Prerequisite: SPAN M02A or two years of high school Spanish
Class Hours: 2 lecture, 0.5 lab as arranged.
Covers the second half of SPAN M02. Introduces Spanish language and
culture, emphasizing skills and knowledge necessary for speaking and
writing. Requires individualized work in the lab each week. Cannot
receive credit for SPAN M02A/B sequence and SPAN M02. SPAN formerly
SPAN. Applies to Associate Degree. Transfer credit: CSU; UC pending.

SPAN M03 -- 4 Units
Intermediate Spanish I
Prerequisite: SPAN M02 or three years of high school Spanish
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board
of Registered Nursing, provider number 02811 for 60 contact hours.
Offers intensive review of basic grammar, including extension and re-
finement of fundamentals and increased proficiency in reading, writing,
and speaking skills. Focuses on culture through study of selected
literature and contemporary society. Requires individualized work in the
lab each week. SPAN formerly SPN. Applies to Associate Degree. Transfer
credit: CSU; UC; CAN: SPAN 8; SPAN SEQ B (SPAN M03 + M04)

SPAN M04 -- 4 Units
Intermediate Spanish II
Prerequisite: SPAN M03 or four years of high school Spanish
Class Hours: 4 lecture, 1 lab as arranged
Approved for Continuing Education hours by the California Board
of Registered Nursing, provider number 02811 for 60 contact hours.
Expands review of basic grammar, including extension and refinement of
fundamentals and increased proficiency in reading, writing, and speak-
ing skills. Focuses on culture through study of selected literature and
contemporary society. Requires individualized work in the lab each week.
SPAN formerly SPN. Applies to Associate Degree. Transfer credit: CSU; UC;
CAN: SPAN 10; SPAN SEQ B (SPAN M03 + M04)

SPAN M05 -- 4 Units
Spanish for Spanish Speakers I
Prerequisite: None
Class Hours: 4 lecture; 1 lab as arranged
 Recommended Preparation: Native ability to use Spanish in everyday
discussion.
Approved for Continuing Education hours by the California Board
of Registered Nursing, provider number 02811 for 60 contact hours.
Reviews basic grammatical concepts as well as linguistic and cultural
matters of interest for native speakers of Spanish. Enriches expression
and comprehension. Explores standard vs. vernacular usage, cross-
language interference, and awareness of Spanish-speaking cultures. Re-
quires individualized work in the lab each week. SPAN M05 parallels
SPAN M01 for native speakers. SPAN formerly SPN. Applies to Associate
Degree. Transfer credit: CSU; UC

SPAN M04 -- 4 Units
SPAN for Health Care Prof.

SPAN M06 -- 4 Units
Spanish for Spanish Speakers II
Prerequisite: None
Class Hours: 4 lecture; 1 lab as arranged
Recommended Preparation: Native ability to use Spanish in everyday
conversation
Approved for Continuing Education hours by the California Board
of Registered Nursing, provider number 02811 for 60 contact hours.
Reviews grammatical constructs of Spanish, emphasizing linguistic and
cultural concerns. Reinforces oral and written expression and compre-
hension, reviewing standard vs. vernacular usage, cross-language inter-
fERENCE, and cultural awareness of the Spanish-speaking world through
study of literature. Requires individualized work in the lab each week.
SPAN M06 parallels SPAN M02 for native speakers. SPAN formerly SPN.
Applies to Associate Degree. Transfer credit: CSU; UC

SPAN M12 -- 3 Units
Spanish Civilization
Prerequisite: None
Class Hours: 3 lecture
Introduces history, culture, and civilization of Spain through a review of
major events and landmarks. Emphasizes 20th century Spanish politics,
culture, and society, focusing on contemporary developments reflected
in literature, art, film, and music. (Same course as HUM M12). SPAN
formerly SPN. Applies to Associate Degree. Transfer credit: CSU; UC

SPAN M22A/B -- 1 to 3 Units Each
Independent Studies in Spanish
Prerequisite: A previous course in Spanish
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to ex-
pand knowledge of Spanish through research, lab work or field trips.
Includes one-on-one work with instructor. May be taken for a maxi-
mum of 6 units. SPAN formerly SPN. Applies to Associate Degree. Trans-
fer credit: CSU; UC credit limitations.

SPAN M31A -- 3 Units
Elementary Conversational Spanish
Prerequisite: None
Class Hours: 3 lecture
Provides basic understanding and use of Spanish in practical situations,
emphasizing elementary grammar and principles of usage for non-na-
tive speakers. May be taken two (2) times for credit. SPAN formerly SPN.
Applies to Associate Degree.

SPAN M31B -- 3 Units
Elementary Conversational Spanish
Prerequisite: SPAN M31A
Class Hours: 3 lecture
Expands introduction and use of Spanish for non-native speakers, em-
phasizing intermediate grammar and principles of usage. May be taken
two (2) times for credit. SPAN formerly SPN. Applies to Associate
Degree.

SPAN M31C -- 3 Units
Elementary Conversational Spanish
Prerequisite: SPAN M31B
Class Hours: 3 lecture
Develops oral skills in Spanish to the advanced level for non-native speaker.
Includes study of grammar and usage. SPAN formerly SPN. Ap-
pplies to Associate Degree.
SPAN M32 -- 3 Units
Spanish for Public Employees
Prerequisite: None
Class Hours: 3 lecture
Introduces basic communication skills for public employees functioning in bilingual situations. Emphasizes practical and instructional vocabulary. Adaptable to needs of students job demands. SPAN formerly SPN. Applies to Associate Degree.

SPAN M41 -- 3 Units
Intermediate Conversational Spanish
Prerequisite: SPAN M2
Class Hours: 3 lecture
Develops oral skills while reviewing grammar and building vocabulary for intermediate non-native speakers. Discusses a variety of topics in Spanish. May be taken concurrently with SPAN M03 or SPAN M04. SPAN formerly SPN. Applies to Associate Degree. Transfer credit: CSU; UC

SPAN M80 -- 1 to 4 Units
Internship in Spanish
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. SPAN formerly SPN. Applies to Associate Degree. Transfer credit: CSU; credit limitations.

SPAN 95* --- CW 114B

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

Most careers require bachelors or graduate degree.
Lawyer, Politician, Management Trainee, Speech Therapist, Linguist, Lecturer, Sales

Dean
Sid Adler, Phone (805) 378-1443

Faculty

Full-Time
Charlene Arnold, Stephen Doyle, Rolland Petrello, Richard Strong, James Wyman

Part-Time
Roberta Burnette, Marjorie Berg, Cal Liedtke, Drew Lobenstein, John Matteison

Counselor
Don Henderson

Speech Communication Degree

Associate in Arts Degree
This program is designed to provide students with a minimum of 28 units in the subject area. Additionally, these courses parallel the undergraduate coursework students will need for a bachelors degree in speech at a four-year institution.

Required Courses: Units
SPCH M01......Introduction to Speech ......................... 3
SPCH M02......Advanced Public Speaking ..................... 3
SPCH M04......Interpersonal Communication .................. 3
SPCH M05......Elementary Oral Interpretation .................. 3
SPCH M07......Argumentation and Debate ...................... 3
SPCH M25......Introduction to Rhetorical Criticism .............. 3
SPCH M10A.....Forensics ........................................ 2
Total ................................................................. 20

Required Additional Courses:
Select a minimum of eight (8) units from the following:
SPCH M03......Voice and Diction ............................... 3
SPCH M06......Small Group Communication ................... 3
SPCH M16......Reader's Theatre .................................. 3
SPCH M56......Business and Professional Speech ............... 3
SPCH M10B.....Forensics ........................................ 2
CIS M27......Introduction to Power Point ....................... 2

Speech Courses

SPCH M01 -- 3 Units
Introduction to Speech
Prerequisite: None
Class Hours: 3 lecture
Introduces basic communication theory, appropriate delivery skills, common organizational patterns, and thorough research techniques of effective oral communication. Includes practical training in feedback and listening skills. Applies to Associate Degree. Transfer credit: CSU; UC

SPCH M02 -- 3 Units
Advanced Public Speaking
Prerequisite: SPCH M01
Class Hours: 3 lecture
Introduces principles of public speaking and analysis of public discourse, emphasizing audience adaptation. Requires presentations of various persuasive speeches and situations. Applies to Associate Degree. Transfer credit: CSU; UC

SPCH M03 -- 3 Units
Voice and Diction
Prerequisite: None
Class Hours: 3 lecture
Introduces theory and practice of voice control, emphasizing correct pronunciation, breathing control techniques, and regional and foreign dialects. Especially useful for those in theatre, forensics and broadcasting. May be taken two (2) times for credit. (Same course as RT M08 and THA M03). Applies to Associate Degree. Transfer credit: CSU; UC.DRAM 6

SPCH M04 -- 3 Units
Interpersonal Communications
Prerequisite: None
Class Hours: 3 lecture
Introduces dynamics of one-on-one communication, focusing on experience, behavior, and rules governing interpersonal contexts such as friendships, families, and work relationships. Studies language, perception, non-verbal cues, listening, and status and roles. Includes conflict resolution, problem-solving techniques, and assertiveness skills. Applies to Associate Degree. Transfer credit: CSU; UC
SPCH M05 -- 3 Units
Oral Interpretation of Literature
Prerequisite: None
Class Hours: 3 lecture
Blends speech and acting, introducing literary interpretation and performance techniques. Requires evaluation, analysis and performance of selections from major genres of literature (prose, poetry and drama). Applies to Associate Degree. Transfer credit: CSU; UC

SPCH M06 -- 3 Units
Small Group Communication
Prerequisite: None
Class Hours: 3 lecture
Introduces dynamics of group discussion, including group problem-solving, participation, leadership, decision-making, working in study groups, panel-forum, and symposium assignments. Includes practice and presentations. Applies to Associate Degree. Transfer credit: CSU; UC pending.

SPCH M07 -- 3 Units
Argumentation and Debate
Prerequisite: None
Class Hours: 3 lecture
Introduces theory, methodology, and practice of critical listening, critical thinking and oral argument, including training in propositions, methods of analysis, stock issue policy analysis, evidence and proof, and cross-examination considerations. Examines types of debatable propositions, effective listening and note-taking, research methodology, and delivery skills. Practices team and debate formats on class-selected topics and issues. Requires final. Applies to Associate Degree. Transfer credit: CSU; UC

SPCH M10A/B/C/D -- 2 Units Each
Forensics
Prerequisite: None
Class Hours: 1 lecture, 3 lab
Provides training, rehearsal, practice and performance necessary to succeed as a competitive speech team. Emphasizes argumentation and debate, informative and persuasive speaking, and impromptu and extemporaneous speaking. Involves research and one-on-one interactive training. Requires participation in interscholastic competition or community speakers bureau. Applies to Associate Degree. Transfer credit: CSU

SPCH M16 -- 3 Units
Readers Theatre
Prerequisite: None
Class Hours: 3 lecture
Introduces concepts and practices of oral interpretation of literature. Requires supervised performances in readers' theatre before community and college audiences. (Same course as Theatre Arts M16). Applies to Associate Degree. Transfer credit: CSU; UC

SPCH M22A/B -- 1 to 3 Units Each
Independent Studies in Speech
Prerequisite: A previous course in speech
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of speech through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

SPCH M25 -- 3 Units
Introduction to Rhetorical Criticism
Prerequisite: ENGL M01A
Class Hours: 3 lecture
Introduces principles of reasoning and rhetoric and their application to the analysis and evaluation of public discourse. Examines rhetorical strategies, quality of argument and support, use of language, awareness of fallacies, and audience expectations. Requires effective thinking, writing, and speaking. Applies to Associate Degree. Transfer credit: CSU; UC

SPCH M56 -- 3 Units
Business and Professional Speech
Prerequisite: None
Class Hours: 3 lecture
Focuses on effective speaking skills needed in leadership positions, including an awareness of presentation techniques, group dynamics, argumentation and persuasion strategies, and organizational structure. Builds on individual needs and interests. (Same course as BUS M56). Applies to Associate Degree. Transfer credit: CSU

SPCH M80 -- 1 to 4 Units
Internship in Speech
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: 5 to 20 lab as arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; credit limitations.

STUDY SKILLS
See courses in Essential Skills, Learning Skills and Personal Growth

TELEVISION
See courses in Radio/Television

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, Assistant Director, Assistant Stage Manager, Stage Technician, Lighting Technician, Sound Technician, Production Assistant, Stagehand, playwright

Dean
Sid Adler, Phone (805) 378-1443
Faculty

Full-Time
Katherine Lewis, Les Wieder

Part-Time
Eric Augustzting, Paulette Brimie-Cox, Roy Howell, Ben Martin, Abra Paudler, Frank Roach

Counselor
Don Henderson

Theatre Arts -- Acting Degree

Associate in Arts Degree
Certificate of Completion
This program is designed to emphasize skills required for acting in those desiring to transfer to a university or college or to seeking to enter the acting profession. Students completing the additional general education requirements of the college receive an associate degree.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>THA M01</td>
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<tr>
<td>THA M02B</td>
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<td>THA M20</td>
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<tr>
<td>THA M24</td>
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</table>

TOTAL minimum units required in major area ............................................. 27

Recommended Courses:
DANC M12A; ENGL M20, M17; MUS M13A; THA M02D, M09

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

Theatre Arts -- Directing Degree

Associate in Arts Degree
Certificate of Completion
This program is designed to emphasize skills required for directing in those desiring to transfer to a university or college or to seeking to enter the directing profession. Students completing the additional general education requirements of the college receive an associate degree.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>THA M01</td>
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<tr>
<td>THA M02A</td>
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<td>THA M10</td>
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<td>THA M23A</td>
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</tr>
<tr>
<td>THA M25A</td>
<td>3</td>
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</table>

TOTAL minimum units required in major area ............................................. 24.5

Recommended Courses: ENGL 20, M17; THA M04A/B, M23A, M24

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

Theatre Arts -- Technical Theatre Degree

Associate in Arts Degree
Certificate of Completion
This program is designed to emphasize skills required for technical theatre in those desiring to transfer to a university or college or who seek to enter professions in the area of technical theatre. Students completing the additional general education requirements of the college receive an associate degree.

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
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<td>THA M25A</td>
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<tr>
<td>THA M25B</td>
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</table>

TOTAL minimum units required in major area ............................................. 24

Recommended Courses: THA M02A, M04A/B, M15A/B

NOTE: The following options may be substituted for courses marked with an *

COSTUME / MAKEUP DESIGN OPTION
THA M24    Costume / Makeup Design ................................................. 3

SCENE PAINTING AND RENDERING DESIGN OPTION
THA M26    Scene Painting and Rendering ........................................... 3

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

Theatre Arts Courses:

THA M01 -- 3 Units
Introduction to the Theatre
Prerequisite: None
Class Hours: 3 lecture
Introduces theatre as an art form, emphasizing appreciation of its historical roots and its dramatic and cultural significance. Develops critical thinking and writing skills pertinent to the analysis of dramatic performances. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: DRAM 18.

THA M02A -- 3.5 Units
Beginning Acting
Prerequisites: None
Class Hours: 2 lecture, 4.5 lab
Introduces the art of acting, emphasizing exercises that develop individual insight, technique, and concentration. Focuses on improvisation. Includes some scene work. Applies to Associate Degree. Transfer credit: CSU; UC. CAN: DRAM 8

THA M02B -- 3.5 Units
Intermediate Acting
Prerequisite: THA M02A or equivalent level of skill
Class Hours: 2 lecture, 4.5 lab
Introduces more intermediate acting techniques, emphasizing characterization through exercises in pantomime and improvisation. Includes practical experience with scenes from plays and work with stage movement. Applies to Associate Degree. Transfer credit: CSU; UC
THA M02C -- 3.5 Units
Advanced Acting I
Prerequisite: THA M02B or equivalent level of skill
Class Hours: 2 lecture, 4.5 lab
Introduces advanced acting techniques and characterization, refining
timing, sense memory, and vocal styles. Requires performance in a variety
of scenes from plays. Continues work with stage movement. Applies
to Associate Degree. Transfer credit: CSU; UC

THA M02D -- 3.5 Units
Advanced Acting II
Prerequisite: THA M02C or equivalent level of skill
Class Hours: 2 lecture, 4.5 lab
Further expands characterization, emphasizing timing, vocal styles and
sense memory. Requires performance in a variety of scenes from plays.
 Applies to Associate Degree. Transfer credit: CSU; UC

THA M03 -- 3 Units
Voice and Diction
Prerequisite: None
Class Hours: 3 lecture
Introduces theory and practice of voice control, emphasizing correct
pronunciation, breathing control techniques, and regional and foreign
dialects. Especially useful for those in theatre, forensics and broadcasting.
May be taken two (2) times for credit. (Same course as RT M03 and
THA M05). Applies to Associate Degree. Transfer credit: CSU; UC. CAN:
DRAM 6

THA M04A -- 3 Units
History of the Theatre
Prerequisite: None
Class Hours: 3 lecture
Traces history of theatrical development from early Greek through the
Italian Renaissance. Applies to Associate Degree. Transfer credit: CSU; UC

THA M04B -- 3 Units
History of the Theatre
Prerequisite: None
Class Hours: 3 lecture
Traces history of theatrical development from English Renaissance to
the present. Applies to Associate Degree. Transfer credit: CSU; UC

THA M09 -- 3 Units
Acting for Film and TV
Prerequisite: None
Class Hours: 2 lecture, 3 lab
Introduces techniques pertinent to film and television acting, including
blocking, movement, rapid line learning, and use of microphones.
Includes performance in student-directed films and television shows. May
be taken four (4) times for credit. (Same course as RT M09). Applies to
Associate Degree. Transfer credit: CSU; UC

THA M10 -- 3 Units
Production and Performance
Prerequisite: None
Class Hours: 144 rehearsal total
Provides credit for range of supervised activities relative to Moorpark
College Theatre Arts productions. May be taken four (4) times for credit.
 Applies to Associate Degree. Transfer credit: CSU; UC

THA M15A -- 3 Units
Beginning Stage Direction
Prerequisite: THA M01 or THA M02A or THA M20
Class Hours: 2 lecture, 3 laboratory
Introduces art and craft of stage direction, including historical review.
Includes practical experience directing scenes by major playwrights.
Often coordinates activities with THA M02B/C/D. Applies to Associate
Degree. Transfer credit: CSU; UC

THA M15B -- 3 Units
Intermediate Stage Direction
Prerequisite: THA M15A
Class Hours: 2 lecture, 3 lab
Continues study of the art and craft of stage direction, including practical
experience through student productions. Coordinates activities with
THA M02A/B/C. Applies to Associate Degree. Transfer credit: CSU; UC.
CAN: DRAMA 12

THA M16 -- 3 Units
Readers Theatre
Prerequisite: None
Class Hours: 3 lecture
Introduces concepts and practices of oral interpretation of literature.
Requires supervised performances in readers' theatre before community
and college audiences. (Same course as SPCH M16). Applies to
Associate Degree. Transfer credit: CSU; UC

THA M17 -- 1.5 Units
Free Dance/Improvisation I
Prerequisite: None
Recommended Preparation: Concurrent enrollment in modern dance
Class Hours: 1 lecture, 2 activity
Encourages joy of movement, allowing unique and creative expressions
in dance. May be taken four (4) times for credit. (Same course as DANC M20A).
Transfer credit: CSU; UC

THA M20 -- 3 Units
Stagecrafts
Prerequisite: None
Class Hours: 2 lecture, 3
Introduces theory and practice of set construction, emphasizing lighting
and audio operations, painting, costume, makeup, and special
effects. Provides hands-on practice in all areas of performing arts
production. May be taken four (4) times for credit. Applies to Associate
Degree. Transfer credit: CSU; UC

THA M21 -- 3 Units
Play Writing
Prerequisite: None
Class Hours: 3 lecture
Develops writing skills for the theatre. Includes possible opportunity of
production. (Same course as ENGL M25). Applies to Associate Degree.
Transfer credit: CSU

THA M22A/B -- 1 to 3 Units Each
Independent Studies in Theatre
Prerequisite: A previous course in Theatre Arts
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand
knowledge of theatre arts through research, lab work or field trips.
Includes one-on-one work with instructor. May be taken for a maximum
of 6 units. Applies to Associate Degree. Transfer credit: CSU; UC
credit limitations.
THA M23A -- 3 Units  
**Lighting Design I**  
Prerequisite: None  
Class Hours: 2 lecture, 3 lab  
Introduces the study of composition, control and instrumentation in theatrical lighting as well as the aesthetics of color, distribution, intensity and movement of light to create mood, time, location, and visibility. Emphasizes hanging, focusing and identifying stagelighting equipment as well as understanding the principles that underlie their design. Includes the basics of electricity. Provides hands-on experience through work on actual productions. Applies to Associate Degree. Transfer credit: CSU; UC pending.

THA M23B -- 3 Units  
**Lighting Design II**  
Prerequisite: THA M23A  
Class Hours: 2 lecture, 3 lab  
Focuses on the design aspect of stage lighting, developing a complete light plot and working schedule for a full-length play. Emphasizes projections and special effects. Includes practical application of computer software for lighting design and light plots. Provides hands-on experience through work on actual productions. Applies to Associate Degree. Transfer credit: CSU; UC pending.

THA M24 -- 3 Units  
**Theatrical Costume and Makeup**  
Prerequisite: None  
Class Hours: 2 lecture, 3 laboratory  
Introduces fundamentals of theatrical costume design and construction as well as the design and application of theatrical makeup. Applies to Associate Degree. Transfer credit: CSU; UC pending.

THA M25A -- 3 Units  
**Scenic Design I**  
Prerequisite: None  
Class Hours: 2 lecture, 3 lab  
Introduces stage scenery as an interpretive and collaborative art. Develops floor plans and drawing techniques, builds models, and reviews drafting conventions that assist in learning design scenery applications. Includes visits to scenic studio to develop painters' evaluations and renderings. Provides hands-on experience through work on actual productions. Applies to Associate Degree. Transfer credit: CSU; UC pending.

THA M25B -- 3 Units  
**Scenic Design II**  
Prerequisite: THA M25A  
Class Hours: 3 lecture, 2 lab  
Explores various advanced elements of scenic design, emphasizing creative and investigative work. Provides practical applications ranging from simplified drawings/paintings to more sophisticated concepts that demonstrate an understanding of design principles. Enhances a play with full set drawings, painter's elevations, floor plans and models. Introduces Vira Walk Through Pro (3-D scenic studio program). Applies to Associate Degree. Transfer credit: CSU; UC pending.

THA M26 -- 3 Units  
**Scene Painting/Rendering**  
Prerequisite: None  
Class Hours: 2 lecture, 3 lab  
Introduces special painting techniques to transform scenery in an acting space into an appropriate and visually pleasing dramatic environment. Applies to Associate Degree. Transfer credit: CSU; UC pending.

THA M80 -- 1 - 4 Units  
**Internship in Theatre Arts**  
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.  
Class Hours: 5 to 20 lab as arranged  
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office: Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

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**Urban Studies**

This is an interdisciplinary program focusing on major problems that 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**

Most careers require bachelors or graduate degree.

- City Planner, Public Administration, City Manager, Urban Economist, Recreation Specialist, Urban Historian, Elected Official, Law Enforcement, Urban Design and Redevelopment, Substance Abuse Specialist, Traffic Analyst, Community Relations

**Dean**

Al Nordquist, Phone (805) 378-1445

**Faculty**

Full-Time

Jack Miller

Counselor

Ofelia Romero-Motlagh

**Urban Studies Courses**

URBN M01A -- 3 Units  
**Contemporary Urban Issues**  
Prerequisite: None  
Class Hours: 3 lecture  
Introduces study of urban areas and politics, focusing on political responses to changes in social organizations occurring as a consequence of population concentration and subsequent political, social and economic patterns and behaviors. Considers structural constraints (national-local and state-local relations) that limit local governments and the distribution of and response to political influence. Satisfies Title V United States Constitution requirement and the CA state and local government requirement. URBN formerly Urban. Applies to Associate Degree. Transfer credit: CSU; UC.
URBN M01B -- 3 Units
Contemporary Urban Issues
Prerequisite: None
Class Hours: 3 lecture
Introduces 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. Includes field research and library study. URBN formerly Urban. Applies to Associate Degree. Transfer credit: CSU; UC

URBN M22A/B -- 1 to 3 Units Each
Independent Studies in Selected Urban Issues
Prerequisite: A previous course in Urban Studies
Class Hours: 1 to 3 as arranged
Allows an independent project (approved by instructor and dean) to expand knowledge of urban studies through research, lab work or field trips. Includes one-on-one work with instructor. May be taken for a maximum of 6 units. URBN formerly Urban. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

URBN M60A-Z -- 1 to 3 Units Each
Topics in Urban Studies
Prerequisite: To be determined
Class Hours: To be determined
Each course deals with a specific topic not covered in general offerings. When offered, each course is announced in the semester's Schedule of Classes. URBN formerly Urban. Applies to Associate Degree. Transfer credit: CSU; UC credit limitations.

URBN M80 -- 1 to 4 Units
Internship in Urban Studies
Prerequisite: Completion of or concurrent enrollment in one course in the discipline.
Class Hours: As arranged
Provides on-the-job learning to enhance coursework under the direct supervision of faculty and industry supervisors. Both supervisors provide feedback and written evaluations. Some meetings and workshops may be required as part of the course. To take this course, contact the Internship Office. Call (805) 378-1400, ext. 1668. May be taken four (4) times for credit. URBN formerly Urban. Applies to Associate Degree.

URBN M89A-Z -- 0.5 to 3 Units Each
Institutes in Urban Studies
Prerequisite: Urban Service Personnel
Class Hours: As arranged
Series of short-term lectures/seminars on specialized urban issues designed for Urban Service Personnel. Only offered credit/no-credit. URBN formerly Urban. Applies to Associate Degree. Transfer credit: CSU

WOMEN'S STUDIES

As the richness and diversity of our society is recognized, issues and concerns of women are of importance to all women and men. These issues and concerns are explored through an interdisciplinary approach in the Women's Studies major. This program is recommended not only for students pursuing an A.A. degree but also for those transferring to a four-year college or university. Transfer students should consult the transfer requirements section of the catalog, which outlines the additional courses required by four-year institutions.

Dean
Al Nordquist, Phone (805) 378-1446

Faculty

Full-Time
Carol Ginet

Women's Studies Degree

Associate in Arts Degree.

Core Courses

Required Courses

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<thead>
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<th>Course</th>
<th>Title</th>
<th>Units</th>
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<td>HUM M19</td>
<td>Women in Contemporary Society</td>
<td>3</td>
</tr>
<tr>
<td>PE M36A</td>
<td>Analysis of Sexual Assault and Self Defense</td>
<td>2</td>
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<tr>
<td>ANTH M09</td>
<td>Anthropology of Women</td>
<td>3</td>
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<tr>
<td>HIST M12</td>
<td>History of American Women</td>
<td>3</td>
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<tr>
<td>HUM M18</td>
<td>Images of Women in Film</td>
<td>3</td>
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<tr>
<td>PSY M11</td>
<td>Psychology of Assertive Communication</td>
<td>5</td>
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<tr>
<td>SOC M04</td>
<td>Intimacy, Relationships, and Commitment</td>
<td>3</td>
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<td><strong>TOTAL</strong></td>
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Required Additional Courses (select a minimum of 8 units):

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<tr>
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<tr>
<td>CD M35</td>
<td>Equity Issues in EOE</td>
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<td>HED M02</td>
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<td>HED M10C</td>
<td>Women's Health Issues</td>
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<td>HED M10F</td>
<td>Stress Management</td>
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<td>HED M10H</td>
<td>Domestic Violence/Issues and Information</td>
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<tr>
<td>HED M10J</td>
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</tr>
<tr>
<td>PSY M13</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>SOC M07</td>
<td>Women in American Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC M08</td>
<td>Ethnicity, Class, and Gender</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL minimum units required in major area</strong></td>
<td><strong>28</strong></td>
<td></td>
</tr>
</tbody>
</table>

WORK EXPERIENCE

Opportunities to earn credit for on-the-job learning are available. See alphabetical listing under Internships/Work Experience. Call the Internship Office at (805) 378-1400, ext. 1668.

ZOOLoGY

See courses in Biological Sciences
Academic Policies

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.

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

Auditing Policy
Auditing enables a student to attend a class without receiving a grade, taking an exam, or earning unit credit. Students enrolled in 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.

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 students' access to library resources.

Please see Moorpark College Library under "Student Services" for further details.

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

Class Attendance
Students are responsible for maintaining regular class attendance. It is also the responsibility of students, at the beginning of the semester, to become aware of the attendance and absence policies of the instructor for each class in which they are enrolled. When a student's absence exceeds in number 1/9 of the total class contact hours for the session (e.g., absence from a 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 the instructor for reinstatement when just cause for absence exists.

**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 at Moorpark College. Other colleges or universities do have different policies concerning advanced placement and may not honor this policy. It is also possible that other colleges and universities may not honor Moorpark College transcript entries which award advanced placement credit for regularly offered credit courses.

All examinations require a score of 3, 4, or 5.

<table>
<thead>
<tr>
<th>Examination</th>
<th>College Credit</th>
<th>M.C. Course Equivalencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government</td>
<td>3 Units</td>
<td>PS M03</td>
</tr>
<tr>
<td>American History</td>
<td>6 Units</td>
<td>HIST M07A, M07B</td>
</tr>
<tr>
<td>Art: History</td>
<td>6 Units</td>
<td>ARJ M01A, 3 Units</td>
</tr>
<tr>
<td>Art: Studio Drawing</td>
<td>6 Units</td>
<td>3 Units Fine Arts/GE, 3 Units Humanities electives, Consult Art Department</td>
</tr>
<tr>
<td>Art: Studio General</td>
<td>6 Units</td>
<td>3 Units Fine Arts/GE, 3 Units Humanities electives, Consult Art Department</td>
</tr>
<tr>
<td>Biology</td>
<td>6 Units</td>
<td>BIOL M02A, M02B (No lab Units)</td>
</tr>
<tr>
<td>Chemistry</td>
<td>10 Units*</td>
<td>CHEM M01A, M01B (No lab Units)</td>
</tr>
<tr>
<td>English Language and Composition</td>
<td>6 Units</td>
<td>ENGL M01A, 3 Units of elective credit</td>
</tr>
<tr>
<td>English Language and Composition</td>
<td>6 Units</td>
<td>ENGL M01A, M01B</td>
</tr>
<tr>
<td>European History</td>
<td>3 Units</td>
<td>HIST M01B</td>
</tr>
<tr>
<td>French Language</td>
<td>8 Units</td>
<td>FREN M01, M02</td>
</tr>
<tr>
<td>French Literature</td>
<td>8 Units</td>
<td>FREN M03, M04</td>
</tr>
<tr>
<td>German Language</td>
<td>8 Units</td>
<td>GERM M01, M02</td>
</tr>
<tr>
<td>Mathematics Calculus AB</td>
<td>5 Units</td>
<td>MATH M25A</td>
</tr>
<tr>
<td>Mathematics Calculus BC</td>
<td>5 Units</td>
<td>MATH M25B</td>
</tr>
<tr>
<td>Physics B</td>
<td>8 Units*</td>
<td>PHYS M10M/M10B (No lab Units)</td>
</tr>
<tr>
<td>Physics C Mechanics</td>
<td>4 Units*</td>
<td>PHYS M20A (No lab units)</td>
</tr>
<tr>
<td>Physics C Elec. &amp; Magnetism</td>
<td>4 Units*</td>
<td>PHYS M20B (No lab units)</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>8 Units</td>
<td>SPAN M01, M02</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>8 Units</td>
<td>SPAN M03, M04</td>
</tr>
</tbody>
</table>

*Does not meet lab requirement for General Education.

**Course Repetition**

A course in which a grade of C or better has been earned may not be repeated except as identified in the catalog course description or as stated below. Courses taken at any college in which a grade of D, E, 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.

**Repetition of General Education Credit**

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

**Credit by Examination**

Granting unit credit for a course by examination is based on the principle that previous experience, training, or instruction is the equivalent of a specific course taught by the college. If an examination indicates that the student possesses adequate equivalency and 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 examination 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,
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 M05, HIST M60T, NS M49, PHOT M04, M09, RADT M49, and all Dance and PE activity courses.

Credit for Military Service

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

Service personnel may be allowed credit for formal service school courses offered by the United States Military Service 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 toward its own degrees, will be allowed advanced standing credit toward the Associate Degree in the same manner as if the student had pursued the courses as a civilian.

Credit/No Credit Options

Colleges of the Ventura County Community College District may offer courses in two Credit/No Credit (CR/NC) options: 1. Courses which are offered 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.

Customized Services to Agencies/Vocational Programs
Agencies desiring support services for their clients will be charged a fee if such services are not normally provided to regular students. For additional information contact the Office of Institutional Advancement at (805) 578-1405.

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.

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 of 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 Students and Educational Services in addition to the counselor’s approval.

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.

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’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.

Full-Time Student
A student is defined as full time if carrying 12 or more units in the regular semester or four 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.

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

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

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

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

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

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).

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:
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.

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

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

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

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

Prerequisites have been established as a means of enhancing student success. Computerized admission procedures may deny students access to courses with prerequisites. It is highly recommended that students carefully review prerequisites before enrolling in classes.

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

1) The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or corequisite course has not been made reasonably available.

2) The prerequisite or corequisite is not valid because it is not necessary for success in the course for which it is required (student documentation required).
3) The prerequisite or corequisite is unlawfully discriminatory or is being applied in an unlawfully discriminatory manner (student documentation required).

4) The student has the knowledge or ability to succeed in the course despite not meeting the prerequisite or corequisite (student documentation required).

Probation, Dismissal, and Readmission of Students

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

Standards for Probation

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

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

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

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

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

Notification of Probation

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

Removal from Probation

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

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

Standards for Dismissal

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

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

Notification of Dismissal

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

Continued Enrollment or Readmission

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

Counseling Services

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

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.
Transfer Credit from Foreign Colleges and Universities

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

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

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.

Unit Requirements for Benefits

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

- Automobile & Medical Insurances: 12.0 units
- Athletic Eligibility: 12.0 units
- Student Government: 12.0 units
- Social Security Benefits: 12.0 units
- Student Loan Deferments —
  - Full-time: 12.0 units
  - Half-time: 6.0 units
- Financial Aid: Contact Financial Aid Office
- Veteran and war optian benefits under GI Bill —
  - Full subsistence: 12.0 units
  - 3/4 subsistence: 9.0 units
  - 1/2 subsistence: 6.0 units
- Less than 1/2 time - Please contact VA Specialist in Admissions & Records Office for details regarding eligibility.

Use of Listening or Recording Devices

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

Withdrawal from Class

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

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

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

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

The "W" shall not be used in calculating grade point averages, but excessive "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 Drop after Deadline," is available in the Office of Admissions and Records.

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

Withdrawal from College

It is the student's responsibility to formally withdraw from all classes if he or she intends to withdraw from college. A student who withdraws after the end of the fourth week of instruction for full-semester classes or after the end of the first thirty percent (30%) of a term for short-term or less than full-semester classes shall have an entry made on his or her permanent record in accordance with the regulations specified in the Withdrawal from Class policy.

Forms for this purpose are available in the Records Office.
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 Executive Vice President, Student Learning 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 Executive Vice President, Student Learning 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 ensure 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 lawfully issued subpoena. 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.

One exception, which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the College or District in an administrative, supervisory, academic or research, or support staff position (including law enforcement personnel and health staff); a person or company with whom the College or District has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Students may request copies of records for review. A fee of $3 will be charged.

Directory Information
The colleges in this District maintain directory information which may be released: student’s name, address, telephone number, and place of birth, major field of study, class schedule, participation of officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous public and private school attended by the student.

Students may indicate that directory information which shall not be released providing written notification is given the Executive Vice President, Student Learning 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 the observer’s area of competence, (4) not based on personal observations of the named person with the time and place of the observation noted.

Students filing a written request shall be provided a hearing and receive, in writing, a decision either sustaining or denying the allegations. Allegations which have been denied by the college may be further appealed to the Chancellor of the Ventura County Community College District or his designee. Allegations which have been denied by the Chancellor may be further appealed to the Governing Board of the Ventura County Community College District who shall meet with the student, within 30 days of receipt of such appeal, to determine whether to sustain or deny the allegations. All decisions of the Governing Board shall be final.

Appendix II
Statement of Nondiscrimination

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. The 504 coordinator is Floyd Thionnet, phone (805) 378-1431.

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, 333 Skyway Drive, Camarillo, California 93010, phone: (805) 384-8300.
Appendix III
Sexual Harassment Complaint Procedure

I. INTRODUCTION
The Ventura County Community College District ("the District") is committed to providing a positive climate for study and work in which individuals are judged solely by relevant factors such as ability and performance and are free to pursue their academic and work activities in an atmosphere that is free from coercion and intimidation. The District strives to ensure that its programs are available to all persons without regard to ethnic group identification, religion, age, sex, color or physical or mental disability. Sexual harassment of students by students, faculty, or other District employees and sexual harassment of employees by students, those in a position to affect their employment status or by other employees in the work unit is inimical to such an atmosphere and will not be condoned.

II. DEFINITION OF HARASSMENT
The District has adopted a definition of sexual harassment that will be applied in determining whether or not particular conduct constitutes sexual harassment. This definition parallels the definition of sexual harassment set forth in the Equal Employment Opportunity Commission Guidelines 29 C.F.R. 1604.11 and the California Education Code 212.5. Sexual harassment shall be defined as:

Unwelcome sexual advances, requests for sexual favors, and other verbal, visual or physical conduct of a sexual nature, made by someone from or in the work or educational setting when:

1. submission to the conduct is explicitly or implicitly made a term or condition of academic advancement or employment;
2. submission to, or rejection of, the conduct by the individual is used as a basis of academic or employment decisions affecting the individual;
3. the conduct has the purpose or effect of having a negative impact upon the individual’s academic or work performance or of creating an intimidating, hostile, or offensive work or educational environment; or
4. submission to, or rejection of, the conduct by the individual is used as a basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the educational institution.

Unlawful harassment may take many forms including but not limited to the following: Making or threatening reprisal after rejection of a sexual advance; leering; making sexual gestures; displaying of sexually suggestive pictures, objects, cartoons, or posters; making or using derogatory comments, epithets, slurs or jokes; verbal sexual advances or propositions; verbal abuse of a sexual nature; graphic verbal comments about an individual’s anatomy; sexually degrading words used to describe individual; suggestive or obscene letters, notes, invitations; touching; assault; impeding or blocking movement.

III. REPORTING SEXUAL HARASSMENT
Whether particular conduct constitutes unlawful harassment must be determined on a case-by-case basis, taking into account such factors as the type, extent, and circumstances of the conduct. For this reason, all employees and students are encouraged to bring to the prompt attention of the District any conduct which they believe to be unlawful harassment.

Often unwelcome, harassing, or otherwise inappropriate conduct can be stopped promptly with notice and the opportunity for the District to address the situation.

Any incident of harassment by any District employee or student, or any other person, should be reported promptly to the following persons designated for receiving and investigating complaints:

Moorpark College:
Denise Avila, Counselor (805) 378-1417
Mr. Rene Rodriguez, Dean (805) 378-1404
Lisa Putnam, Administrative Aide (805) 378-1445

District Office:
Cheryl Shearer, Director of Economic Development (805) 384-8316
Shelley Signor, Human Resources Clerk (805) 384-8354

The role of these investigators is to investigate any complaints of sexual harassment and report the results of their investigation to the college President and the Deputy Chancellor. The college President and/or the Deputy Chancellor shall determine whether additional investigation is necessary and what remedial and/or disciplinary action is appropriate.

You are not required to complain to any one whom you believe is harassing you, or whom you feel may retaliate should you make such a report to that person. In such an event, please report the incident to one of the other designated persons. You may report your complaint to any of these individuals regardless of what campus or job location you study or work.

Complaints of harassment that are reported to the persons identified herein will be investigated as thorough, prompt, effective, and confidential a manner as possible. In addition, the District will not tolerate retaliation against any employee or student for making a report or complaint pursuant to this policy.

At a minimum, when an employee or student complains about harassment, the District will:

1. Fully inform the employee or student of her/his rights to complain and redress the harassment; the employee or student must be informed of her/his own obligations to secure her/his rights and of any assistance available to her/him under the District’s procedures;
2. Immediately conduct an impartial fact-finding investigation of the alleged harassment. The District must make a determination about whether unlawful harassment occurred, and communicate this alleged finding to the harasser and any other concerned party; and
3. If unlawful harassment is established, the District will take whatever measures it deems reasonable and appropriate to discipline the harasser and prevent further harassment.

IV. ADDITIONAL AVAILABLE STATE AND FEDERAL PROCEDURES AND REMEDIES
In addition to the District’s process for reporting sexual or other prohibited harassment, both the State of California and the federal government have established processes by which student and employee claims of sexual harassment may be reported.

1. Employees
A. State Law Procedures - An employee may file a claim with the Department of Fair Employment and Housing (DFEH). Information regarding claims procedures may be obtained in this area from the following office: Department of Fair Em-
ployment and Housing, 1732 Palma Drive, Suite 200, Ventura, CA 93003-6081 (805) 654-4512.

Upon the filing of a claim, the DFEH will contact the employer and conduct a full investigation of the sexual harassment charge. Should the DFEH determine that sexual harassment occurred, it may attempt voluntary compliance through conciliation, or it may file an administrative lawsuit on behalf of the claimant. The DFEH may also issue a letter to the claimant, allowing that claimant to bring a civil action in state court against the employer with respect to the claim of sexual harassment.

B. Federal Law Procedures - In addition to the state reporting procedures available under the DFEH, an employee may seek redress under Title VII of the US Civil Rights Act of 1964. An employee may file a claim with the Equal Employment Opportunity Commission (EEOC). Information regarding claims procedures may be obtained in this area from the following office: Equal Employment Opportunity Commission, 255 E. Temple Street, 4th Floor, Los Angeles, CA 90012, (213) 894-1000.

The EEOC works in conjunction with the State DFEH in investigating charges of harassment.

C. Remedies - A victim of unlawful harassment may be compensated in a number of ways, including: reinstatement or promotion in the event the victim has lost his or her job or a job opportunity; a court order that the harasser stop engaging in sexual harassment and/or discrimination; a court order that the employer develop training and education for supervisors and employees in the area of sexual harassment; and back pay. An award of back pay will generally compensate the victim for benefits lost during the discriminatory acts, minus whatever compensation was received by the victim during that period.

State and federal law further provide that a claimant may sue for damages attributable to emotional distress, and in egregious cases, may also recover punitive damages against the employer and/or harasser. Fines may also be assessed by the Fair Employment and Housing Commission.

2. Employees and Students

A. State Law Procedures - In addition to the internal reporting process described in Section III, employees or students who believe they have been subjected to unlawful harassment may file a formal complaint with the District Chancellor or his designee pursuant to California Code of Regulations Title 5, Article 3, 59328 by contacting the District office. The complaint reporting and investigation procedure is described more fully in the District's policy for investigating complaints of unlawful discrimination which may be obtained from the District office at 333 Skyway Dr., Camarillo, CA 93010, phone (805) 384-8500. Complaints of sexual harassment may also be directed to: California State Department of Education, 721 Capital Mall, Sacramento, CA 95814 (916) 657-4762.

B. Federal Law Procedures - Title IX of the Education Amend-
ments of 1972 prohibits discrimination on the basis of sex in federally-funded education programs and provides a federal remedy for employees and students who are victims of sexual harassment. In addition to the District's internal reporting procedure described in Section III, employees and students may file complaints for violations of Title IX by contacting: Department of Education's Office of Civil Rights, 50 United Nations Plaza, Room 239, San Francisco, CA 94102 (415) 437-7700.

C. Remedies - Remedies available to students and employees under the California Code of Regulations Title 5, Article 3, 59328 and Title IX and may include monetary damages, as well as declarative or injunctive relief.

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 Executive Vice President, Student Learning. Institutional recognition shall not be withheld or withdrawn solely because of the inability of a student organization to secure an advisor.

D. Chartered student organizations shall be open to all students without respect to race, creed or national origin.

III. OFF-CAMPUS AFFILIATIONS

Any organization (whether official or unofficial) of students on the college campuses which, in its constitution or method of operation, vests control of its policies in an off-campus organization, shall not be recognized as an official college organization and shall not be allowed to use the facilities of the District.

IV. ADVOCACY AND FREE EXPRESSION

A. Purpose. The primary purpose of a college is the advancement and dissemination of knowledge. Free inquiry and expression are indispensable to the attainment of this purpose. The colleges of the Ventura County Community College District have the responsibility to establish and maintain general conditions conducive to an orderly and open examination of ideas and issues relevant to the primary purpose referred to above.

B. Registered Students. Students of the Ventura County Community College District have the right of free expression and advocacy and may exercise this right within the framework outlined below.
Policies

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. Onerous 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, Instructional Services a reasonable time in advance of the event to arrange a schedule. 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 Executive Vice President, Student Learning 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 Executive Vice President, Student Learning 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 further 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. patio 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.

Appendix V
Student Grievance

I. PURPOSE
Students are encouraged to pursue academic studies and other college-sponsored activities in order to promote intellectual growth and personal development. In seeking these ends, students should be free from improper interference by other members of the college community.

A grievance may be initiated by a student whenever the student believes that she or he has been subject to unjust actions or denied normal rights as stipulated in college regulations and in the State Education and Administrative Codes. A grievance may be initiated by a student against any other student or employee of the college.

II. DEFINITION
A grievance is an allegation of unjust action or denial of student rights. A grievance exists only when a specific educational wrong has occurred to a single student. This wrong must involve an unjust action or denial of student rights as defined in a specified college, college district or superior legal covenant or judgment. A grievance exists only when such an error or offense has some demonstrably correctable result. The outcome of a grievance must produce a tangible benefit to the student complaining or an actual redress of the wrong rather than a punishment for the person or persons found in error.

III. PROCEDURES
A. Informal Processes
   When a student believes that a personal injustice has been sustained, an attempt should first be made to resolve the concern by informal means. Consultation should be made with the student, faculty member, administrator or classified person involved in order to seek direct resolution. If this process fails or, for some reason, cannot be accomplished, the aggrieved student should confer with the direct supervisor of the person allegedly causing the problem. If both of these steps are unsuccessful, the aggrieved student should discuss the problem with the Executive Vice President, Student Learning (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 Executive Vice President, Student Learning 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 Executive Vice President, Student Learning 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 Executive Vice President, Student Learning will verify the completeness of the written charge and present the charge to the Grievance Committee within ten working days of receipt.

4. The Grievance Committee will review the charges made (Section B.2.) within five working days and request a response in writing from the person accused. This person must reply within ten working days. Upon receipt of this response, the committee shall meet and recommend to the President that (a) the case be dismissed or (b) the reasonable cause for a hearing exists. This action must take place within five working days.

5. The President will then either dismiss the case with the reasons set out in writing to both parties or request that the Grievance Committee hold a formal hearing. The President must take this action within five working days of receipt of the committee's recommendation (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 wit-
nesses and receive all evidence pertaining to the charge.
d. Both parties shall have the right to present statements, testi-
mony, evidence and witnesses. Each party shall have the right
to be represented by a single advisor but not a licensed at-
torney.
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 testi-
mony 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 col-
lege President. Actions in this procedure shall be completed
within five working days.
h. The committee shall submit its findings of fact and rec-
ommendation 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) 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 Chan-
cellof 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 col-
lege 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 per-
sontel records will only be made in compliance with board/
state/federal laws, rules, regulations and contracts.

Appendix VI
Sexual Assault
California Education Code Section 67385 requires that community col-
lege districts adopt and implement procedures to ensure prompt response
to victims of sexual assault which occur on campus or during official
campus events, as well as providing the victims with information regard-
ing treatment options and services.
Ventura County Community College District exercises care to keep its cam-
puses free from conditions which increase the risk of crime. Crimes of
rape and other forms of sexual assault are violations of VCCCD standards
and will not be tolerated on campus. California statutes and the VCCCD
Standards of Student Conduct prohibit sexual assaults. Where there is
cause to believe the District's regulations prohibiting sexual assault have
been violated, the District will pursue strong disciplinary actions includ-
ing suspension or dismissal from the college.
Ventura County Community College District is committed to providing
prompt, compassionate services to those individuals who are sexually as-
saulted, as well as follow-up services, if needed.

Administrative Regulations and Procedures Concerning
Incidents of Sexual Assault on Campus

I. INTRODUCTION
Education Code Section 67385 requires that the governing board of
each community college district adopt and implement clear, consist-
tent, and written procedures to ensure that specific victims of sexual
assault which occurred on campus property or during college spon-
sored events shall receive information regarding available treatment
options and services, both on and off campus, as well as to ensure that
the colleges will promptly respond to the option selected by the victim.

II. DEFINITIONS
For the purpose of the legislation, the following definitions are off-
ered:
1. "Specific population" and "specific victim" include students, fac-
ulty and staff.
2. "Sexual assault" is any kind of sexual activity which is forced upon
a person against his or her will. The definition includes, but is not
limited to: rape (including "date" or "acquaintance rape"), forced
sodomy, forced oral copulation, rape by a foreign object, or sexual
battery or threat of sexual assault.
3. "On campus" is defined quite broadly to include: 1) any building
or property owned or controlled by the District within the same
reasonable contiguous geographic area and used by the District in
direct support of, or related to, its educational purposes; or 2) any
building or property owned or controlled by student organizations
recognized by the institution.
4. "Official college sponsored events" include, but are not limited to,
all classes off campus, field trips, or any event on the college calen-
dar.
5. "Victim" of sexual assault is generally referred to here as being
female, but could also include a male.

III. COLLEGE POLICY
Moorpark College exercises care to keep the campus free from conditions
which increase the risk of crime. Crimes of rape and other forms of sexual
assault will not be tolerated on campus.
The Ventura County Community College District Code of Student Con-
duct prohibits sexual assaults, as do California criminal statutes.
The Board of Trustees commits the college to taking prudent action to
prevent sexual assaults from occurring and to ensure that students, faculty and staff are not adversely affected for having brought forward a charge of rape or other forms of sexual assault. Where there is cause to believe the college’s regulations prohibiting sexual assault have been violated, Moorpark College will pursue strong disciplinary actions which include the possibility of suspension or dismissal from the college.

In addition, a student, faculty, or staff member charged with sexual assault can be prosecuted under California criminal statutes in addition to being disciplined under the Code of Student Conduct or Education Code, as applicable. Even if prosecution does not take place, the campus may pursue disciplinary action.

The Board of Trustees is also committed to provide prompt, compassionate services to those individuals who are sexually assaulted and follow-up services if needed.

IV. GUIDELINES, PROCEDURES AND PERSONNEL RESPONSIBLE FOR RESPONDING TO A SEXUAL ASSAULT INCIDENT

The INDIVIDUAL INITIALLY NOTIFIED about the sexual assault will provide a secure setting for the victim. (This could be an unoccupied office or classroom, a well-lighted area or, ideally, the Student Health Services Office.) The Campus Police Office and the HEALTH SERVICES COORDINATOR should be notified, if possible.

The involved college personnel should then:

1. Listen to the victim’s needs.

2. Assess the situation. Determine the seriousness of the victim’s injuries; call “911” if injuries are severe and transportation is needed by ambulance to a hospital.

3. Ask the victim what he/she wants to do. A consent form (available in English or Spanish) may be completed by the victim for any of the following options:
   a) Does the victim want to be taken to a hospital or private doctor’s office? Does the victim want to contact a friend or family member? If the victim does not want to contact anyone, a campus police officer may take the victim to the hospital. If possible, a female should accompany the victim if the officer is male.
   b) Does the victim want to have the Ventura County Coalition Against Domestic and Sexual Violence contacted? The mission of the Coalition is to coordinate and implement services to the victim of sexual assault.
   c) Does the victim want to report the incident to police? NOTE: If the victim is younger than 18, the sexual assault must be reported to the police. If the victim is 18 years or older, it is the victim’s decision whether or not to involve the police. (California law requires hospitals to report injuries by criminal act to a law enforcement agency.)

If the victim of a sexual assault decides to involve the police, the CAMPUS POLICE LIEUTENANT will notify the appropriate police department and may request an officer of like gender of the victim for the report. The officer will take a police report, transport, accompany or meet the victim at an appropriate medical facility for the evidentiary examination, may conduct a follow-up interview, and may transport the victim home with consent.

The COORDINATOR OF HEALTH SERVICES will notify the parent, guardian, spouse or friend, if appropriate and with the consent of the victim.

Upon consent of the victim, the COORDINATOR OF HEALTH SERVICES may arrange for college personnel or a RASAC advocate to accompany the victim, if appropriate, through hospital procedures and encounters with law enforcement agencies.

The CAMPUS POLICE LIEUTENANT will complete a confidential incident report and keep records of the incident for statistical purposes.

As early as possible in the process outlined above, the EXECUTIVE VICE PRESIDENT OF STUDENT LEARNING or the administrator on duty at the college should be notified. That individual should go to the victim’s location and assist in the administration of these procedures, as well as notifying other campus and/or District officials, as appropriate.

IN THE EVENT THE SEXUAL ASSAULT INCIDENT OCCURS WHEN THE CAMPUS IS NOT OPEN (“AFTER HOURS”), THE INDIVIDUAL INITIALLY NOTIFIED about the sexual assault will notify the campus police by calling on any campus phone (ext 1455); the CAMPUS POLICE LIEUTENANT will follow the same procedures as described above.

IN THE EVENT THE SEXUAL ASSAULT INCIDENT OCCURS AT AN OFF-CAMPUS EVENT and it is not possible to contact the CAMPUS POLICE, then the INDIVIDUAL INITIALLY NOTIFIED will contact the LOCAL LAW ENFORCEMENT AUTHORITY if the victim is under 18 years old (if 18 or over, if the victim wishes).

FOLLOW UP PROCEDURES BY COLLEGE STAFF:

The EXECUTIVE VICE PRESIDENT OF STUDENT LEARNING and CAMPUS POLICE LIEUTENANT will do a follow-up interview with the victim to inform her/him of the legal options available for filing a civil suit or a criminal action. If she/he wants to pursue criminal action, the appropriate police department will conduct the follow-up criminal investigation.

The COORDINATOR OF HEALTH SERVICES will provide the victim with information on the treatment and counseling of sexual assault and provide referrals for appropriate assistance such as the COLLEGE PSYCHOLOGIST (or alternative counseling services) and the COLLEGE PHYSICIAN. The EXECUTIVE VICE PRESIDENT OF STUDENT LEARNING will explain disciplinary procedures and actions available. The ASSOCIATE VICE CHANCELLOR OF PERSONNEL SERVICES, if appropriate, will explain disciplinary procedures and actions available in cases involving faculty or staff. The EXECUTIVE VICE PRESIDENT OF STUDENT LEARNING will be responsible for ensuring that all follow-up procedures are completed.

V. LEGAL REPORTING REQUIREMENTS AND PROCEDURES

The reporting of rape and other forms of sexual assault follows the same procedures as the reporting of any crime. No special information is required, but the report needs to include certain standard information such as where the incident occurred, to whom (identified by name and age) and exactly what happened.

Once a victim of sexual assault has chosen to notify authorities about the assault and chooses to pursue prosecution, a medical-legal examination should be performed as soon after the assault as possible and within hours for evidence.

VI. LIST OF CAMPUS SERVICES AND PERSONNEL AVAILABLE TO ASSIST WITH INCIDENTS OF SEXUAL ASSAULT

Campus Police, ext 1455; Campus Health Services Office, ext 1413; Office with Evening and Weekend Responsibility, ext 1404.
VII. PROCEDURES FOR ONGOING CASE MANAGEMENT

Follow-up intervention may be provided with the victim's consent and as needed by the COLLEGE PSYCHOLOGIST for psychological counseling. The EXECUTIVE VICE PRESIDENT OF STUDENT LEARNING will track the victim's academic progress and will assist, when requested, by arranging academic counseling, tutoring, and other services deemed appropriate. ACADEMIC COUNSELORS may assist with developing an education plan. The EXECUTIVE VICE PRESIDENT OF STUDENT LEARNING or VICE CHANCELLOR OF PERSONNEL SERVICES will initiate disciplinary procedures and inform the victim of the status of any disciplinary actions and the EXECUTIVE VICE PRESIDENT OF STUDENT LEARNING will keep the COLLEGE PRESIDENT informed.

The following individuals may also be contacted, as appropriate, on a need-to-know basis by the aforementioned administrators: Coordinator, Disabled Student Services, Division Directors, Instructors, Chancellor, Vice Chancellor, Personnel Services, Public Information Officer.

VIII. PROCEDURES TO GUARANTEE CONFIDENTIALITY

In all associations with the public, the media, family and friends of the victim, and in accordance with the Family Rights and Privacy Act and the Buckley Amendment, the name of the victim and/or specific details of the assault will be released only when essential to the health and safety of the individual assaulted or that of other members of the campus community. The PUBLIC INFORMATION OFFICER will be kept informed and will interface with the media, general public, students and staff. Other campus personnel dealing with the incident should refer any inquiries to the public information office.

In addition, and in full accordance with Chapter 595 of the Education Code, no person, persons, agency or organization permitted access to student records (including security records about incidents involving the college's students) shall permit access to any information obtained from those records by any other person, persons, agency or organization WITHOUT THE WRITTEN CONSENT OF THE STUDENTS INVOLVED.

However, the victim of any sexual assault which is the basis of any disciplinary action taken by the community college shall be permitted access to that information in compliance with the Buckley Amendment. Access to this information shall consist of a notice of the results of any disciplinary action taken by the college and the results of any appeal. This information shall be provided to the victim within three days following the said disciplinary action or appeal.

IX. INFORMATION REGARDING OTHER OPTIONS

Criminal Actions: Once an incident of sexual assault has been reported to the appropriate police department by college personnel, it is up to the police department to collect information, including the legal/medical exam, and to investigate the matter. The information is then turned over to the District Attorney’s office to determine if criminal prosecution is appropriate. The District Attorney’s office has the ultimate responsibility to determine whether the incident is a criminal offense and to bring it before the courts for punitive action against the assailant. Punitive consequences can include fines, probation and incarceration. If there is not sufficient evidence for the case to be passed on to the District Attorney, the police may decide to initiate an investigation to gather the necessary information which could lead to a prosecution.

Civil Actions: If the victim of the sexual assault decides that she/he wants to pursue a civil action for damages against the perpetrator, then the victim should consult with an attorney for the civil legal action. The District Attorney’s office is reluctant to refer to any particular civil attorney, but the Ventura County Coalition Against Domestic and Sexual Violence has a complete referral list of local attorneys with whom they have had experience. In addition, the names of attorneys may be obtained through the Ventura County Bar Association.

Disciplinary Process Through the College: Various forms of discipline may be imposed on a student who is guilty of misconduct ranging from reprimand, probation, and suspension, to expulsion. The student disciplinary procedures of the college are described in this catalog. They are initiated by the EXECUTIVE VICE PRESIDENT OF STUDENT LEARNING. Faculty and staff are subject to the college’s disciplinary action policies.

Mediation Services: Mediation between any of the “specific population” involved in a sexual assault incident at the college is available and may be arranged through the EXECUTIVE VICE PRESIDENT OF STUDENT LEARNING.

Academic Assistance Alternatives: Academic assistance for victims of sexual assault includes tutoring, switching to different sections or classes, academic counseling, “Incomplete” or “Withdrawal”, or assistance in transferring.

Harassment Restraining Order: Under California law (section 527.6 of the Code of Civil Procedure), courts can make orders to protect people from being harassed by others. These orders are enforced by law enforcement agencies. A victim who desires to obtain such an order must file an action in the Superior Court. Simplified procedures for obtaining such orders have been established by the courts. An instructional booklet that tells what court orders a victim of harassment can obtain and how to get them is available from the Clerk of the Ventura County Superior Court, Hall of Justice, 800 South Victoria Avenue, Ventura, CA 93009.

Appendix VII

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 Executive Vice President, Student Learning shall have the power to impose suspen-
sion 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 (5) 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, Executive Vice President, Student Learning, 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 Executive Vice President, Student Learning shall receive and may issue any charge of alleged misconduct made against a stu-
Policies

1. The Executive Vice President, Student Learning 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.

2. The Executive Vice President, Student Learning may also procure information relating to the charge from the student and other persons or sources. Whenever appropriate, the Executive Vice President, Student Learning shall assess, or cause to have assessed, damage to property and injury to persons or other forms of misconduct.

3. At this point, the Executive Vice President, Student Learning 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.

4. At this time, if the student does not accept the Executive Vice President, Student Learning's decision, the Executive Vice President, Student Learning 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 Executive Vice President, Student Learning 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 Executive Vice President, Student Learning's 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. 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 VIII

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 useful for the government and discipline of the schools under its charge. Any governing board shall enforce the provisions of this section by suspend-
ing, 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, Methamphetamine-crack, crystal)
   a. Impaired reflexes
   b. Sluggishness or hyperactivity
   c. Increased accidents
   d. Impaired judgment and decision making

7. **Sedatives** (Barbiturates; tranquilizers-valium, xanox; secanol, tulanol-rods, 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.

**Moorpark College Campus Crime Statistics**

The Crime Awareness and Campus Security Act of 1990 requires institutions to report data for certain criminal acts that occur on campus. The Ventura Community College District’s Campus Police office reported the following crimes on the Moorpark College campus in 1998.

- **Homicides**: 0
- **Rapes**: 0
- **Sexual Assault**: 0
- **Aggravated Assault**: 0
- **Robbery**: 0
- **Arson**: 0
- **Burglary - Vehicle**: 7
- **Motor Vehicle Theft**: 4
- **Liquor Law Violations**: 0
- **Drug Abuse Violations**: 0
- **Weapons Possessions**: 0
### Appendix IX

Ventura County Community College District

1999-2000 Nonresident Tuition Fee Charges and Refund Schedule

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*No refunds permitted if withdrawal occurs after the 4th week of a regular semester or the 3rd week of summer session. For refunds of less than a full semester class, consult the Records Office.*
## Appendix X

Ventura County Community College District
1999-2000 Foreign Capital Outlay Surcharge and Refund Schedule

<table>
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<th>Units Enrolled</th>
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100% Refund 75% Refund 50% Refund 25% Refund 25% Refund

*No refunds permitted if withdrawal occurs after the 4th week of a regular semester or the 3rd week of summer session. For refunds of less than a full semester class, consult the Records Office.*

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FULL-TIME FACULTY

(Dean) indicates year of employment at Moorpark College. Faculty rank determined by Moorpark College Academic Senate.

Adler, Sidney (1968)
Dean
B.A., M.A., City College of New York;
Ph.D., University of Southern California.

Aguilera, Christine S. Ruiz (1972)
Professor, Mathematics/Computer Science
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)
Professor, Radiologic Technology
A.A., Los Angeles City College;
B.S., California State University, Northridge.

Alexander, Judy (1968)
Professor, Nutritional Science
B.S., University of California, Los Angeles;
M.S., California State University, Northridge.

Allyn, Donna Proske (1988)
Counselor
A.A., Windward Community College, Hawaii;
B.S., M.Ed., University of Hawaii;
Ph.D., University of California, Los Angeles.

Andrieuse, 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

Avila, Denise C. (1997)
Counselor
B.A., San Jose State University;
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)
Associate Professor, Anthropology
B.A., Pepperdine University;
Ph.D., Universität Hamburg.

Barker, Beverly J. (1989)
Professor, Mathematics
B.A., Pomona College;
M.S., California State University, Northridge.

Barnett, Cynthia (1992)
Professor, Sociology
B.A., M.A., Bowling Green State University.

Becht, Balazs (1983)
Professor, Astronomy/Physics
B.S., M.S., California State University, Northridge.

Bennett, Lori (1996)
Associate Professor, Business
B.A., University of Southern California;
M.B.A., University of Chicago.

Berg, Eugene (1970)
Professor, Chemistry
A.B., University of California, Los Angeles;
M.S., California State University, Long Beach;
Ph.D., University of California, Los Angeles.

Berney, Daniel E. (1997)
Instructor, Dance
B.A., University of California, Santa Barbara;
M.F.A., University of California, Irvine

Beron, Alberto (1971)
Professor, Mathematics
B.S., M.A., California State University, Los Angeles.

Bianchino, Francis S. (1977)
Professor, Psychology and Counselor
B.A., St. Francis College;
M.S., St. John's University;
Ph.D., U.S. International University.

Bittner, James L. (1979)
Professor, Physical Education/Health Education
B.A., Mt. Union College;
M.A., Western State College;
M.A., California Lutheran College.

Bodhaine, Grace C. (1991)
Department Chair - Modern Languages, ESL
Associate Professor, Spanish
B.A., M.A., California State University, Northridge;
C.Phil., University of California, Los Angeles.

Bortolussi, Victoria (1989)
Dean
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.

Brinkman, Charles  
Counselor  
B.A., University of California, Santa Barbara  
M.S., California State University, Northridge.

Brown, Daniel P. (1986)  
Professor, History  
B.A., Ball State University;  
M.A., Colorado State University.

Burkard, Patricia (1996)  
Instructor, Nursing  
A.A., Riverside City College  
B.S., M.S., California State University, Fresno.

Byrne, Denise J. (1981)  
Professor, Nursing  
B.S.N., M.S.N., California State University, Los Angeles.

Counselor  
B.S., M.S., University of Arizona.

Chetlen, Martin W. (1999)  
Instructor, Computer Science  
B.S., City College of the City University of New York,  
M.C.S., Texas A & M University.

Professor, Mathematics  
B.A., University of California, San Diego  
M.S., California State University, Northridge.

Collier, Shay (1972)  
Professor, Computer Information Systems  
B.A., Cornell College;  
M.A.E., California Lutheran College.

Conrad, Eva E. (1997)  
Executive Vice President, Student Learning  
B.A., University of South Alabama;  
M.A., Ph.D., University of Arizona.

Copsey, Cecile M. (1968)  
Professor, History  
B.A., University of California, Berkeley;  
M.A., University of California, Los Angeles.

Department Chair, Child Development/Criminal Justice/Interior Design  
Associate Professor, Child Development  
B.A., University of California, Santa Barbara;  
M.A., California State University, Northridge.

D’Attile, Sherry (1990)  
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;  
M.A., University of Southern California.

Daurio, Janice (1996)  
Professor, Philosophy  
B.A., City University of New York, New York  
M.A., Claremont Graduate School  
M.A., Mount Saint Mary’s College;  
Ph.D., Claremont Graduate School.

Davie, John (1971)  
Professor, English/Humanities  
B.A., M.A., University of California, Santa Barbara.

Dillon, Bona L. (1989)  
Professor, Journalism/English  
B.A., M.A., Ball State University.

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  
B.A., M.A., California State University, Long Beach.

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;  
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  
B.A., Los Angeles Valley College;  
A.B., M.S., Ph.D., University of Southern California.

Feingold, Janice C. (1989)  
Department Head, Business;  
Associate Professor, Business  
B.A., University of California, Davis;  
M.S., California State University, Northridge.

Fink, Kathryn E. (1981)  
Professor, Mathematics  
B.A., University of California, Santa Cruz;  
M.A., University of Oregon.

Associate Professor, Philosophy  
B.A., M.A., Ph.D., University of Fribourg;  
M.A., M.B.A., University of California, Los Angeles.

Franke, Deanna R. (1994)  
Assistant Professor, Chemistry  
B.S., California Lutheran University;  
Ph.D., University of California, Santa Barbara.

Garber, Norman (1986)  
Professor, English  
B.A., University of Connecticut;  
M.A., Ph.D., University of California, Santa Barbara.

Dean  
B.S., M.Ed., De Paul University;  
Ed.D., Nova University.

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.

Green, Donald R (1997)  
Instructor, Physical Education  
B.A., California Lutheran University;  
M.A., California Lutheran University.

Grzywacz-Gray, John M. (1971)  
Professor, Photography, Graphic Design, Journalism  
Institute of Design.

Gucciardo, Peter (1971)  
Professor, Economics  
A.B., California Lutheran College;  
M.A., University of Southern California.

Habib, Faten M. (1997)  
Librarian  
B.A., American University of Beirut;  
M.S., 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)  
Department Chair, Health/Physical Education  
Professor, Health Education/Physical Education  
B.S., California State University, Hayward;  
M.S., Utah State University;  
M.A., California Lutheran College.
The College Community

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.

Harrigan, Maureen (1996)
Assistant Professor, Biology
B.S., Santa Clara University
Ph.D., University of Southern California

Harrington, G. David (1992)
Professor, Criminal Justice
A.S., Moorpark College;
B.S., M.S., California State University, Los Angeles.

Hemming, Ruth (1997)
Vice President, College Services
B.A., University of California, Berkeley;
M.A., Mount Holyoke College;
Ed.D., University of La Verne.

Henderson, Donald (1974)
Counselor
B.A., Austin College;
M.S., California State University, Los Angeles.

Herman, Robert (1968)
Department Chair, History and Institutions;
Professor, Political Science/Economics
B.A., M.A., University of California, Santa Barbara.

Higashida, Carol (1997)
Instructor, Nursing
B.S., M.N., University of California, Los Angeles.

Professor, Mathematics
B.S., University of Northern Iowa;
M.S., University of Oregon.

Hoffmans, Kimberly D. (1993)
Associate Professor, Nursing
B.S.N., University of Texas, Austin;
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Hopkins, Randolf B. (1989)
Professor, History
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Ingersoll, Orbie (1967)
Professor, Music
B.A., California State University, Northridge;
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Ingram, Edna M. (1986)
Counselor
B.A., Roosevelt University;
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Associate Professor, Business
B.A., Occidental College;
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Counselor
A.B., M.A.T., Whittier College;
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Johnson, Michael (1989)
Department Chair, Counseling Counselor
B.S.S.W., M.S.W., St. Louis University,

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Professor, English/Humanities
B.A., University of California, Santa Cruz;
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Kay, David (1984)
Professor, Computer Information Systems/Mathematics
B.A., M.S., California State University, Northridge.

Keever, John (1969)
Coordinator, Athletics;
Professor, Physical Education
B.A., University of California, Santa Barbara;
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Keill, Robert N. (1997)
Instructor, Organic Chemistry
B.S., University of California, Berkeley;
Ph.D., University of California, Santa Barbara.

Kessner, Dolly E. (1990)
Professor, Music
A.B., M.A., University of California, Los Angeles;
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Department Chair, Chemistry/Environmental/Earth Sciences;
Professor, Chemistry
B.S., California State College;
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LaBarge, Mary L. (1983)
Associate Librarian;
Professor, Mathematics
B.A., University of California, Santa Barbara;
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Assistant Professor, High Tech Center Specialist
B.A., University of California, Los Angeles
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Lewis, Katherine (1975)
Professor, Theatre Arts
B.A., M.A., University of California, Los Angeles;
Ph.D., University of California, Santa Barbara.

Professor, Nursing
B.S.N., University of Illinois Medical Center;
M.S.N., California State University, Los Angeles.

Lopez, Diana (1970)
Professor, English
A.A., Ventura College;
B.A., M.A., San Francisco State University;
Ed.D., Nova University.

Lopez, Robert (1971)
Professor, Archaeology/Anthropology
B.A., M.A., California State University, Northridge.

Instructor, Child Development
B.S., Iowa State University
M.A., California State University, Northridge

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Counselor
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College Nurse;
Professor/Coordinator, Student Health Services
A.S., Ventura Community College;
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Martin, Floyd (1967)
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Professor, Art History
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Professor, Biology/Anthropology
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McCullough, MoDean (1969)
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.

Mendoza, Gilbert R. (1973)
Professor, Physical Education
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Meschan, Lynn M. (1990)
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A.A., City College, San Francisco;
B.A., M.A., California State University, Sonoma.
Department Chair, Physics/Astronomy/Engineering
Professor, Physics/Mathematics/Engineering
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Miller, Alfred J. (1972)
Professor, Radio/Television
A.B., University of North Carolina; M.S., University of Illinois.

Professor, Political Science
B.A., University of Alabama; M.A., University of California, Santa Barbara; Ph.D., Claremont Graduate School.

Miller, Larry O. (1971)
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Instructor, Computer Information Systems
A.A., Moorpark College, Moorpark, CA
B.S., California State University, Fresno
M.B.A., California Lutheran University.

Miranda, Gloria (1997)
A.A., Oxnard College, Oxnard, CA
B.A., University of California, Santa Barbara
M.S., California State University, Northridge

Molinar, Charles D. (1968)
Professor, Mathematics
B.S., Harvey Mudd College; M.A., University of California, Riverside

Monteiro, Sergio Lara P. (1986)
Professor, Director of 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; M.A., California State University, Northridge.

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.

Nasr, Mathena (1974)
Professor, Environmental Science
B.S., Arkansas State University; M.S., Kansas State University; Ph.D., Columbia Pacific University.

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Professor, Mathematics
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Nordquist, Allyn (1967)
Dean, Social Science/Physical Education, Athletics Division
B.A., San Diego State University; M.A., California State University, Long Beach.

Ogden, Gary (1976)
Professor, Biology/Botany
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Parker, Delbert M. (1969)
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Patterson, James (1974)
Professor, Exotic Animal Training and Management
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Professor, Exotic Animal Training and Management
D.V.M., Cornell University.

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Professor, Speech
A.A., Moorpark College; B.S., Southern Utah State College; M.A., Miami University of Ohio.

Pollock, Steven J. (1968)
Department Chair, Behavioral Sciences; Professor, Psychology
B.A., Whitman College; M.A., Ph.D., Claremont Graduate School.

Ponce O'Rourke, Sally (1999)
Instructor, Psychology
B.A., University of California, Santa Barbara; M.A., California State University, Northridge

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B.S., Pahlavi University, Iran; M.S., Ph.D., University of Southern California; M.S., California State University, Northridge.

Professor, English
B.A., Immaculate Heart College; M.A., California State University, Northridge; M.A., California State University, Los Angeles.

Reynolds, Jack G. (1969)
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Rode, Benjamin L. (1989)
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B.A., M.A., University of California, Santa Barbara.

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Sanchez, Tomás (1991)
Professor, History/Latino Studies
B.A., California State University, Northridge; M.A., University of California, Santa Barbara.

Sardisco, Frank V. (1967)
Professor, Art
B.A., University of California, Los Angeles; M.F.A., Otis Art Institute.

Schak, Fred J. (1981)
Professor, Mathematics
B.S., University of California, Davis; M.S., California State University, Northridge.
The College Community

Schulz, Hart (1989)
Professor, English
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Shargo, Eric S. (1992)
Associate Professor, Anatomy/Physiology/Biology/Zoology
B.A., M.S., California State University, Northridge; Ph.D., University of California, Los Angeles.

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Shubert, Brenda (1982)
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B.S.N., Medical College of Georgia; M.N., University of California, Los Angeles.

Sims, Sydney (1989)
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Song, James J. (1991)
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M.E., M.M., University of Colorado, Boulder.

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Department Chair, Performing Arts
Professor, Music
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Thonnet, Floyd D. (1972)
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President
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Professor, Mathematics
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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
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Instructor, Spanish
B.A., Arizona State University, Tempe; B.A., University of Aachen; M.A., University of Kiel; Ph.D., University of Texas, Austin.

Woodward, Carol (1981)
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B.A., M.A., California State University, Northridge; Ph.D., University of Southern California.

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Professor, Mathematics
A.A., Santa Barbara City College; B.A., M.A., University of California, Santa Barbara.

Professor, Business/Computer Information Systems
B.S., University of Redlands; J.D., Loyola Law School.

Young, Kathleen (1974)
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A.B., Pennsylvania State University;
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M.L.S., Immaculate Heart College.

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College Nurse, Health Education
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Bowen, Donald C. (1967)
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M.B.A., University of California, Los Angeles;
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Director, Physical Education/Health Education Division;
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Professor, English
A.B., University of California, Santa Barbara;
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Evans, Brook (1974)
Professor, Business
A.A., Orange Coast College;
B.S., California State University, Long Beach;
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M.A., California Lutheran College.

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Professor, Philosophy
B.A., Pennsylvania State University;
M.A., University of Rochester.

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Vice President, Instructional Services
B.S., United States Naval Academy;
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B.S., University of Southern California;
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B.S., Slippery Rock State College;
M.S., Ph.D., University of Pittsburgh.

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Vice President, Administrative Services
A.B., M.A., University of Southern California.

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B.A., University of Minnesota;
M.A., California State University, Northridge.

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Professor, Counseling/History
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Sociology
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M.S., Los Angeles State College;
Ph.D., University of Southern California.

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B.S., Ph.N., Catholic University of America;
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Geology
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M.S., Stanford University.

Professor, Biology/Chemistry
A.B., M.S., Ed.D., University of So. California.

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Professor, Art
B.A., M.A., University of Southern California.

Shindo, Kokki (1969)
Professor, Mathematics
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M.S., Western Washington State.

Siegel, A. Howard (1967)
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Ph.D., University of Southern California.

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Director of Library Services
J.D., Charles University, Prague, Czechoslovakia;
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B.A., University of California, Los Angeles;
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Professor, Interior Design
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Strong, Richard (1971)
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Art
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Professor, Electronic Engineering
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College/District Administration

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Office of Student Learning
Executive Vice Pres., Student Learning .................. Dr. Eva E. Conrad
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Dean, .................................................. Allyn Nordquist
Dean, .................................................. Vacant
Dean, .................................................. Floyd Thionnet

Office of College Services
Vice President, College Services .................. Dr. Ruth Hemming
Director, Auxiliary Services .................. David Leyba
Director, Maintenance and Operations .................. Jim Ferguson

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Child Care/Child Development .................. Linda A. Cravens
Extended Opportunity Program Services .................. Paul K. Pagson
Exotic Animal Training/Management .................. Gary L. Wilson
Nursing Science .................................................. Brenda Shubert
Special Education .................................................. Janet M. Andreise
Student Health Services .................................................. Sharon L. Manakas

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Business .................................................. Janice C. Peingold
Child Dev/Criminal Justice/Interior Design .................. Linda Cravens
CIS/CS/Drafting .................................................. Mary Mills
Counseling .................................................. Mike Johnson
History and Institutions .................................................. Robert Herman
Language Arts .................................................. Sydney Sims
Life Sciences .................................................. Thomas MeAdam
Mathematics .................................................. Robert Stephens
Modern Languages and ESL .................................................. Grace Bodhaine
Performing Arts .................................................. James Sterne
Physical Education .................................................. Ronald Halleran
Physics/Astronomy/Engineering .................. Fred Meyer
Chemistry/Environmental/Earth Sciences .................. Richard Kurtik
Visual and Communication Arts .................. Sexton Stewart

Title IX Representative .................................................. Dr. Eva Conrad
Title V Facilitator (Affirmative Action) .................. Sally Ponce-O’Rourke
504 Facilitator (Handicapped) .................. Floyd Thionnet

Accreditation
Moorpark College is accredited by the Accrediting Commission for community and junior colleges of the Western Association of Schools and Colleges, 3402 Mendocino Avenue, Santa Rosa, CA 95403, (707) 569-9177, an institutional accrediting body recognized by the Commission on Recognition of Post-secondary Accreditation and the U.S. Department of Education.

The Ventura County Community College District
333 Skyway Drive, Camarillo, California 93010, phone: (805) 384-8300.

Governing Board
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Robert Gonzalez .................. Vice President, Ojai/Santa Paula/Camarillo Area
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Michael Gregory .................. Deputy Chancellor

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The Moorpark College Foundation was formed in 1980 and 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.

Information can be secured by calling (805) 378-1407, 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.

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APPLICATION FOR ADMISSION INSTRUCTIONS

NOTE: If you have attended Moorpark, Oxnard, or Ventura College anytime since 1983, you do not need to complete a new application for admission. However, please notify the Records office in writing of any change to your name, address, or phone number.

1. Use a ball point pen only to complete the Application for Admission.

2. The code numbers needed to complete questions 7, 14, 16, and 17 are listed below.

3. Answer all questions on both the Application for Admission and Statement of Residence. Make sure that at least two years of legal residence have been provided. Incomplete applications cannot be processed and will be returned to you.

4. Sign and date the application and statement of residence.

5. Return the application to Moorpark College Records Office, 7075 Campus Rd., Moorpark, CA 93021 or Fax (805) 738-1583.

6. Questions regarding the Application for Admission, residency requirements or registration procedures should be directed to the Records Office at (805) 738-1429.

REMEMBER: An application for admission must be on file before registration can take place.

Question 7 — States


If not U.S. list country

Question 14 — High Schools

103008 Agoura 563490 Apollo 563079 Buena 563161 Camarillo 563310 La Reina 563325 Moorpark 563374 Newbury Park 563407 Northrop 563510 Oak Park 563454 Oxnard 563478 Rio Mesa 563500 Royal 564536 Santa Clara 565577 Santa Paula 563618 Simi Valley 564486 St. Bonaventure 564614 Thousand Oaks 567272 Ventura 569283 Villanova 569311 Westlake

Question 16 — Majors


Question 17

University of California 017846 UC, Berkeley 577725 UC, Davis 307781 UC, Irvine 197887 UC, Los Angeles 337797 UC, Riverside 377637 UC, San Diego 427677 UC, Santa Barbara 447765 UC, Santa Cruz California State University and Colleges 055250 CSU, Bakersfield 064242 CSU, Chico 106135 CSU, Dominguez Hills 100260 CSU, Fresno 307205 CSU, Fullerton 018178 CSU, Hayward 125450 CSU, Humboldt 191311 CSU, Long Beach 191333 CSU, Los Angeles 196770 CSU, Northridge 0614 Golden Valley Community College 346760 CSU, Sacramento 366565 CSU, San Bernardino 376725 CSU, San Diego 386796 CSU, San Francisco 437677 CSU, San Jose 376820 CSU, San Marcos 400165 Cal Poly, San Luis Obispo 466710 CSU, Sonoma 506730 CSU, Stanislaus

Community Colleges

425213 Allan Hancock College 435523 American River College 45020 Antelope Valley Com. College 155560 Bakersfield College 365074 Barstow College 405115 Bute College Community College 445276 Cabrillo College 415635 Canada College 191514 Centennial College 155001 Cerro Coso Com. College 015226 Chabot College 363510 Chaffey College 191717 City College of San Francisco 381556 City College of San Mateo 305001 Coastline Community College 015957 College of Aramco 215200 College of Marin 415151 College of San Mateo 152501 College of the Canyons 153515 College of the Desert 125140 College of the Redwoods 542501 College of the Sequoias 475200 College of the Skyline 550205 Columbia College 191400 Compton Junior College 075190 Contra Costa College 435124 Cosumnes River College 363511 Creston Hills College 405500 Cuesta College 376200 Cuyamaca College 335191 Cypress College 426144 De Anza College 075244 Diablo Valley College 191317 East Los Angeles College 191251 El Camino College 435677 Evergreen Valley College 325355 Feather River College 425207 Foothill College 105240 Fresno City College 305940 Fullerton College 435383 Glendale Community College 305381 Golden West College 376204 Grossmont College 278195 Hartnell Community College 153570 Imperial Valley College 219001 Indian Valley College 305805 Irvine Valley College 109535 Kings River Comm. College 050001 Lake Tahoe Comm. College 013450 Laney College 184240 Lassen College 193331 Long Beach City College 193545 Los Angeles City College 193635 Los Angeles Harbor College 195623 Los Angeles Mission College 195384 Los Angeles Pierce College 193671 Los Angeles Southwest College 195300 Los Angeles Trade-Techn. Coll. 195396 Los Angeles Valley College 072595 Los Medanos College 235001 Mendocino College 245610 Merced College 015570 Merritt College 375509 Mira Costa College 423681 Mission College 405000 Modesto Junior College 272207 Monterey Peninsula College 565390 Moorpark College 194757 Mt. San Antonio College 334685 Mt. San Jacinto College 20240 Napa Valley College 016161 Ohlone College 305385 Orange Coast College 563281 Ozark College

214

Rollins College 335565 Palos Verde College 375542 Palomar College 195256 Pasadena City College 543534 Pepperdine College 305958 Rancho Santiago College 198958 Rio Hondo College 335587 Riverside Community College 345743 Sacramento City College 305579 Saddleback College 365594 San Bernardino Valley College 375663 San Diego City College 375993 San Diego Mesa College 193800 San Diego Miramar College 345673 San Francisco Delta College 435683 San Jose City College 425560 Santa Barbara City College 195863 Santa Monica College 435650 Santa Rosa City College 456885 Shasta College 315730 Sierra College 413711 Skyline College 489265 Solano Community College 375807 Southwestern College 192600 Taft College 356741 Ventura College 365790 Victor Valley College 015236 Vista College 195151 West Hills College 195962 West Los Angeles College 435660 West Valley College 556925 Yuba College

Independent Colleges and Universities

561120 Cal Lutheran University 191329 University of La Verne 186804 University of Southern California
<table>
<thead>
<tr>
<th>1. I plan to attend:</th>
<th>□ Moorpark College □ Oxnard College □ Ventura College</th>
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</thead>
<tbody>
<tr>
<td>2. I am applying for the:</td>
<td>Year 19 □ Spring Semester □ Summer Session □ Fall Semester</td>
</tr>
<tr>
<td>3. Social Security Number:</td>
<td><strong><strong>-</strong></strong>-____ (If Available)</td>
</tr>
<tr>
<td>4. Name:</td>
<td></td>
</tr>
<tr>
<td>5. Previous Last Name (if you attended under another name):</td>
<td></td>
</tr>
<tr>
<td>6. Date of Birth:</td>
<td>______<strong><strong><strong>-</strong>__-</strong></strong></td>
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<tr>
<td>7. State Birthplace:</td>
<td>□ California □ Other (see page 214 for state codes)</td>
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<td>8. Sex:</td>
<td>□ Male □ Female</td>
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<td>9. Address:</td>
<td>(Number and Street)</td>
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<td>10. City/State:</td>
<td></td>
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<tr>
<td>11. Zip Code:</td>
<td>____________</td>
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<td>12. Day Phone (include area code):</td>
<td>______<strong><strong><strong>-</strong>__-</strong></strong></td>
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<tr>
<td>13. Evening Phone (include area code):</td>
<td><strong><strong>-</strong></strong>-____</td>
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<td>14. Last High School Attended (use H.S. code on page 214):</td>
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<td>15. High School Graduation or Date Last Attended:</td>
<td>______<strong><strong><strong>-</strong>__-</strong></strong></td>
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<td>16. Proposed Major (use code on page 214):</td>
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<td>17. Last College Attended (use code on page 214):</td>
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<tr>
<td>18. California Driver's License Number:</td>
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<tr>
<td>20. Primary Language:</td>
<td>□ English □ Not English</td>
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<td>21. Citizenship Status:</td>
<td>□ U.S. Citizen NOT A U.S. Citizen □ Permanent Resident (Immigrant) Visa □ Temporary Resident/Amnesty □ Refugee/Asylee □ Student Visa (F-1 or M-1) □ Other Visa or Visa type □ Unknown</td>
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<td>22. Student Academic Level: (Please indicate your education status at the beginning of the semester for which you are applying. Mark the highest level of education attained.)</td>
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<tr>
<td>23. Student Enrollment Status: (Mark one)</td>
<td>□ First-time student. A student enrolled in any college for the first time</td>
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<tr>
<td>24. Student Educational Goal: (Select your highest priority)</td>
<td>□ Obtain a bachelor's degree after completing an associate's degree</td>
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<td>25. Score on SAT or ACT:</td>
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DECLARATION OF LEGAL RESIDENCE

All students classified incorrectly as residents are subject to reclassification and payment of all nonresident fees. ALL APPLICANTS MUST COMPLETE THIS SECTION

NOTE TO STUDENTS: If additional information is needed to determine your residence status, you will be required to complete a supplemental residence questionnaire and/or present evidence in accordance with Education Code Sections 66340 et seq. The burden of proof to clearly demonstrate both physical presence in California and intent to establish California Residence lies with the student. Failure to present such proof will result in a classification of non-resident.

SOCIAL SECURITY NUMBER

NAME (Print full legal name. DO NOT use nicknames, initials, or abbreviations)

Last ___________________________________________ Middle ___________________________________________

First ___________________________ Birthdate ___________________________ Birthplace ___________________________

RESIDENCE ADDRESS (Legal / permanent address. DO NOT use P.O. Box Number)

Number / Street ___________________________ City ___________________________ State ______ Zip ______

I have lived at this address since ___________________________ (If less than 2 years, show previous address below)

Number / Street ___________________________ City ___________________________ State ______ Zip ______

Number / Street ___________________________ City ___________________________ State ______ Zip ______

When did your present stay in California begin? ___________________________ ___________________________ ___________________________

Yes No

☐ ☐ Are you a United States Citizen?

☐ ☐ If you are not a United States citizen, have you been admitted to the U.S. as a resident alien?

If yes, give date admitted ___________________________ and Alien Registration Number ___________________________

If no, list visa type (example: B-2, Visitor visa - dependent), duration of status, and country of citizenship:

Visa type ___________________________ Duration of Status ___________________________ Country of Citizenship ___________________________

* Verification of visa status is required. Students must present proof of status *

☐ ☐ Have you or (if under 19 and unmarried) your parents filed California State Income Tax last year?

If not in California, in what state did you last file state taxes? ___________________________ For what year(s) ___________________________

☐ ☐ Registered to vote in a state other than California?

If yes, where & when ___________________________

☐ ☐ Petitioned for divorce in a state other than California?

If yes, where & when ___________________________

☐ ☐ Attended an out-of-state institution as a resident of that other state?

If yes, where & when ___________________________

☐ ☐ Declared nonresidence for California State Income Tax purposes?

If yes, where & when ___________________________

☐ ☐ Are you on active military duty?

If yes, what date did your tour begin in California? (month/day/year) ___________________________

State of legal residence on military records: ___________________________

☐ ☐ Are you a dependent of an active duty military person?

If yes, when did your sponsor’s tour begin in California? (month/day/year) ___________________________

☐ ☐ Have you been discharged from active military duty within the last year?

If yes, submit copy of DD-214

To be completed by all unmarried students under 19

Name of Father (if living) ___________________________ Name of Mother (if living) ___________________________

Name of Legal Guardian ___________________________

Legal Address (number & street, city, state, zip) ___________________________ Dates (month / year) ___________________________

Father ___________________________ From ___________________________ To ___________________________

Mother ___________________________ From ___________________________ To ___________________________

Guardian ___________________________ From ___________________________ To ___________________________

If less than 2 years, give previous address(es) for past 2 years.

Relationship ___________________________ St. & No. ___________________________ City ___________________________ State ______ Zip ______ Fr ______ To ______

Relationship ___________________________ St. & No. ___________________________ City ___________________________ State ______ Zip ______ Fr ______ To ______

I certify under penalty of perjury that the information on this application is correct and I understand that falsification of failure to report change in residence may result in my dismissal.

Student Signature ___________________________ Date ___________________________