Saddleback College Catalog
2002-2003
Volume XXXIV

Saddleback College 28000  Marguerite Parkway  Mission Viejo, California 92692  949-582-4500

Saddleback 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 Postsecondary Accreditation and the U.S. Department of Education.

Saddleback College does not discriminate on the basis of handicap, sex, race, color, or national or ethnic origin in administration of its (1) educational policies; (2) personnel practices; and (3) college programs. The college, by law, cannot engage in any such discriminatory activity. Grievance procedures exist for students, employees and job applicants. Information can be obtained from the Office of Personnel and Employee Relations for job applicants and employees. The Office of Student Services maintains grievance procedure information for students. Any questions regarding discrimination may be directed to the South Orange County Community College District Affirmative Action Officer and Title IX Coordinator, District Employee Relations and Personnel Office.

Questions or problems regarding access of students with disabilities to any college program or service should be directed to the Section 504 Officer, Vern Hodge. He can be contacted at 949-582-4566, or through Special Services at (949) 582-4612, Saddleback College, 28000 Marguerite Parkway, Mission Viejo, CA 92692.

Nota: La información para las personas que hablan Español se encuentra en la página 9 de este catalogo.
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Linda Bashor, Editor

Cover Design and Technical Assistance
Mary O’Malley and Christina M. Ortiz

Public Information Officer
Susan Lemkin|Paul Meyer

Special thanks to the Saddleback College Department of Art and its talented students whose works are shown throughout this catalog.

A very special “thank you” for the continued support of Becky Aguilar, the ITC staff, especially Mark Sierakowski, and to all of the division office staff, administrators, and faculty.

For his unending knowledge, support, and patience we would like to thank Don Buschê, Vice-President for Instruction; we will all miss you.
District Mission, Philosophy and Functions

The South Orange County Community College District is committed to providing high quality postsecondary educational opportunities. Through its colleges the district is a participant in building the communities it serves and in enhancing the quality of life of individuals in those communities. Underlying the mission of the South Orange County Community College District is the indispensable condition of public access without discrimination, which is based upon the recognition of the dignity and worth of the individual in a free society.

In order to carry out its mission, the Board of Trustees has established colleges, programs of study, and support services.

It is a policy of the South Orange County Community College District to employ academic and classified staff of the highest quality in order to carry out the mission and functions of the district.

As entrusted to them by law, the Board of Trustees defines as essential the following functions:

1. Provision of rigorous, high quality degree and certificate curricula in lower division arts and sciences, and in vocational and occupational fields.
2. Provision of developmental instruction, English as a second language instruction, and support services which help students succeed at the postsecondary level.
3. Provision of educational services such as counseling, career guidance, tutoring, financial aid, and specialized assistance for the disabled.
4. Provision of lifelong learning opportunities through credit and non-credit courses and programs as exemplified in the Emeritus Institute and other curricula.
5. Provision of Community Education seminars, short courses, workshops, and programs to support community needs not met by traditional college curriculum and consistent with the primary mission of the district.
On behalf of the Saddleback College faculty, staff and administration, welcome! Over the past 35 years, Saddleback College has grown to become one of California’s finest community colleges. With an impressive array of high-tech learning centers, a challenging academic curriculum, a distinguished and talented faculty, and strong student support services, students of all ages will find it a stimulating learning environment where you are challenged to fulfill your potential and encouraged to achieve your goals. The excellence of our programs and faculty has been demonstrated again and again by the success of our alumni in their academic pursuits at four-year universities and in the professional world.

Saddleback College has always considered the transfer function to be the “heart” of the institution. Saddleback has ranked in the top 10 percent of both public and private California institutions in transferring students to four-year colleges and universities for many years. The number of transfer students continues to increase and new programs of articulation and dual enrollments will continue to support our students in these endeavors. Graduates of our occupational certificate programs quickly discover that their state-of-the-art training makes them highly competitive leaders in the job market.

At Saddleback College, students are our top priority. We have developed a strong infrastructure of support services to encourage your success. There is a full range of counseling, career planning and job placement services, financial aid programs, as well as assistance for those with learning disabilities and/or physical limitations. Saddleback College also offers on-campus childcare, a fully staffed health center, and a variety of tutorial programs. In addition, Saddleback has extensive programs and services for re-entry men and women, for older adults through the nationally recognized Emeritus Institute, and for professionals in need of continuing education credits.

This is an exciting time in which to meet new people, learn new things and expand your horizons. In this era of lifelong learning, the “college years” can, and should, continue throughout your life. Whether you’re pursuing an academic degree, developing your professional and technical skills, or chasing a dream, Saddleback College has the resources and personnel to help you reach your educational goals.

Dixie L. Bullock
President
Saddleback College
Administration

OFFICE OF THE PRESIDENT
President

OFFICE OF INSTRUCTION
Vice President

OFFICE OF STUDENT SERVICES
Vice President

ADMISSIONS, RECORDS, AND ENROLLMENT SERVICES
Director

STUDENT DEVELOPMENT
Director

STUDENT SERVICES AND FINANCIAL AID
Assistant Dean

ADVANCED TECHNOLOGY AND APPLIED SCIENCE
Dean
Architectural Drafting
Automotive Technology

AVIATION TECHNOLOGY

CONSUMER/FAMILY RESOURCES

DRAWING TECHNOLOGY

COMPUTER MAINTENANCE TECHNOLOGY

ENVIRONMENTAL STUDIES

FOODS AND NUTRITION

HORTICULTURE

MARINE SCIENCE TECHNOLOGY

BUSINESS SCIENCE, VOCATIONAL EDUCATION, AND ECONOMIC DEVELOPMENT
Dean
Accounting
Business

Computer and Information Management
International Business

Office Information Systems
Real Estate

COUNSELING SERVICES AND SPECIAL PROGRAMS
Director
Applied Psychology

FINE ARTS, PHYSICAL EDUCATION, AND ATHLETICS
Dean
Assistant Dean/Athletic Director

ART

PHOTOGRAPHY

THEATRE ARTS

PHYSICAL EDUCATION

HEALTH SCIENCES, HUMAN SERVICES, AND EMERITUS INSTITUTE
Dean
Director, Emeritus

DIRECTOR, NURSING

Director, Nursing

Emergency Medical Technology
Gerontology

Health Sciences
Medical Assistant

Nursing
Paramedic

Psychiatric Technician
Sign Language

Special Education

LIBERAL ARTS AND LEARNING RESOURCES
Dean

ENGLISH

ENGLISH AS A SECOND LANGUAGE

HUMANITIES

JOURNALISM

LIBRARIES

TUTORING

MATH, SCIENCE, AND ENGINEERING
Dean

ASTRONOMY

CHEMISTRY

ENGINEERING

MATHEMATICS

PHYSICS

SOCIAL AND BEHAVIORAL SCIENCE
Dean

ANTHROPOLOGY

CROSS-CULTURAL STUDIES

EDUCATION

HISTORY

POLITICAL SCIENCE

SOCIAL SCIENCE

WOMEN’S and GENDER STUDIES

Saddlemore College Catalog 2002/03
Goals of Saddleback College

Saddleback College is the largest member of the South Orange County Community College District, and the College offers educational opportunities and support services to a diverse and growing population in southern Orange County.

Our Vision:
To inspire and develop through excellence in education a community of diverse learners dedicated to achieving their full potential in our global society.

Our Mission:
To provide access to learning opportunities that promote student success; to foster intellectual growth, individual expression, and character development; and to support a dynamic environment of innovation and collegiality.

Our Goal:
The primary goal of Saddleback College is to provide a comprehensive postsecondary education and a full range of student services. Emphasis is placed on open access to all students, including a changing and diverse student population. Academic success and student achievement are joint responsibilities of the students, the staff, and the College. To this end, the College will:

1. Provide educational programs leading to the Associate in Arts and Associate in Science degrees.
2. Provide a comprehensive, broad range of high-quality courses and programs to enable students to pursue their educational objectives and career goals.
3. Provide a meaningful general education program including baccalaureate-level transfer and occupational curricula.
4. Provide necessary developmental, remedial, and basic skills instruction so that students may be successful in their chosen course of study.
5. Provide access for the community to the educational, cultural, and recreational resources of the College.
6. Provide counseling and other support services which are responsive to the needs of students.
7. Provide opportunities in continuing education and community services, including courses for skills upgrading and retraining for professionals and life-long learning for older adults.

To fulfill this goal, Saddleback College offers:

General Education
The purpose of general education is to introduce students to the various ways in which people comprehend the world. This philosophy of general education reflects the conviction that those who complete the courses will have had an opportunity to learn basic principles, concepts, and methodologies both unique to and shared among the various disciplines. Students who successfully complete the general education requirements will be better prepared to evaluate and appreciate physical, cultural, and social environments. Successful completion of the courses will contribute to a better self-understanding.

Associate Degrees
Associate degrees are awarded upon the successful completion of a prescribed program of study. Associate degrees are designed to provide opportunities for students to develop skills to communicate clearly and effectively, both orally and in writing; to use computational skills; to demonstrate the modes of inquiry of the major disciplines; to demonstrate awareness of other cultures and times; to gain insights relative to ethical problems; to think critically; and to develop the capacity for self-understanding.

Occupational-Vocational Education
Occupational Certificate programs are designed to prepare students to qualify for positions in business, industrial, paraprofessional, and technical fields, or in some instances, for transfer.

Lower-Division Transfer Education
Baccalaureate-level transfer courses, which include general education and transfer major requirements, are provided for those students who wish to earn higher degrees after transferring to four-year universities and colleges.

Counseling and Student Services
The college provides a wide range of counseling and support services to meet the needs of students from diverse backgrounds. Our rapidly changing and complex society poses many challenges to students when making decisions about education objectives, career opportunities, and life changes. Counseling and student support services are available to assist students in making these decisions.

Community Education
The College provides not-for-credit educational opportunities for the community through fee-based classes and programs for adults and children. Courses are self-supporting and do not receive funding through state or local taxes or the College’s budget.
Información en Español

La información se ha traducido al español para que la comunidad hispanohablante del distrito de Saddleback pueda informarse acerca del proceso de matrícula en la universidad comunitaria de Saddleback. Los/las estudiantes que necesiten ayuda o tengan preguntas favor de llamar a la Oficina de Matrícula y Archivos al 949-582-4555 o a la Oficina de Consejería al 949-582-4571. La Oficina de Matrícula (Admissions and Records) está situada en el Edificio de Servicios para Estudiantes.

**Información para matricularse**

**ELEGIBILIDAD PARA ASISTIR A UNA UNIVERSIDAD COMUNITARIA:**

— Tener 18 años de edad o ser graduado/a de la escuela secundaria.

— Estudiantes de primaria y secundaria, con permiso especial de sus escuelas y aprobación de la universidad comunitaria (el formulario para el permiso se obtiene en la Oficina de Matrícula)

— NO-RESIDENTES: Son personas que han permanecido menos de un año (en California) antes del inicio del semestre o personas que mantienen visa inmigratorias las cuales impiden establecimiento de residencia. Para mayor información, comuníquense al 949-582-4344 en la Oficina de Residencia.

Debido a una reciente legislación (California AB 540) algunos/as estudiantes que no tengan los documentos de residencia y que se hayan graduado de una escuela secundaria de California, podrían calificar para una “exención” de la matrícula de no-residente. Para favor llame al 949-582-4344 para obtener más información acerca de esta exención.

Debido a una reciente legislación (California AB 540) algunos/as estudiantes que no tengan los documentos de residencia y que se hayan graduado de una escuela secundaria de California, podrán calificar para una exención de la matrícula de no-residente. Para favor llame al 949-582-4344 para obtener más información acerca de esta exención.

**FECHAS DE INSCRIPCIONES:** Las personas que asistan por primera vez deben completar su solicitud antes de que empiece el semestre para asegurarse de que todos sus requisitos estén en orden y listos para empezar el primer día de clases.

Fechas de entrega de su solicitud para los siguientes semestres:

- 1 de abril — otoño (fines de agosto)
- 1 de octubre — primavera (principios de enero)
- 1 de abril — verano (fines de mayo)

**CÓMO HACER UNA CITA PARA INSCRIBIRSE:** Los/las estudiantes que asistan por primera vez a la universidad y los/las que ya hayan asistido y regresan, deben de completar una solicitud. La Oficina de Matrícula y Archivos documentará su información y le dará un permiso con la fecha y la hora para que se inscriba. Se puede inscribir en la fecha indicada, por vía telefónica, en persona, vía internet depende de cuándo entregue la solicitud. En caso de que la clase deseada no tenga cupo, hay una lista de espera. Informe el personal para que pongan su nombre en esta lista. Es muy importante que asista a clases el primer día.

**CÓMO ANADIRY CANCELAR CLASES:** Para añadir una clase después de una semana de haber comenzado, hay que obtener permiso del/de la instructor(a). En caso de que haya cupo el/la instructor(a) le dará una tarjeta rosada con su firma para admitirla a su clase. Entregue esta tarjeta en la Oficina de Matrícula lo más pronto posible.

Para salirse de una clase no necesita la firma del/de la profesor/a, simplemente vaya a la Oficina de Matrícula y llene una tarjeta (ADD DROP CARD). En el lado que dice “drop” llene la información de la clase que cancelará, y en el lado que dice “add” llene la información de la clase que añadirá. Sólo llene la parte de la tarjeta que le corresponda.

**Los/las estudiantes pueden añadir y dejar clases sin la firma del/de la profesor/a durante el período de inscripción; (que es antes de iniciar el semestre) sólo lleve consigo su tarjeta de identificación de estudiante.**

Nota: Es de suma importancia que el/la estudiante lea el horario de clases para informarse de las fechas exactas para dejar clases. Vaya a la Oficina de Matrícula si ha decidido dejar una clase para que quede documentado en su archivo.

**Cobros**

El día en que el/la estudiante se matricule debe pagar por todos los servicios tales como seguro médico, excursiones, estacionamiento, como también por la matrícula.

**COBRO DE INSCRIPCIÓN:** Se cobrará lo siguiente:

- **No residente:** $140.00 (por unidad) y en adición $11.00 por unidad.
- Al no-residente que es ciudadano/residente extranjero adicionalmente se le cobrará $12.00 por uso de facilidades (por unidad)
- Y $39.00 (sin devolución) para procesar su solicitud al tiempo de inscribir.

**Residentes:** Al residente de California se le cobrará $11.00 por unidad.

Las clases de inglés como segunda lengua (ESL) que no tienen unidades “0 units” son gratuitas. Estos cobros pueden cambiar cada semestre. Para más información llame al 949-582-4555.

**COBRO DE ESTACIONAMIENTO:** Para el estacionamiento es $28 por semestre.

- $10 por la sección de verano, ó $10 por estacionamiento anual el cual incluye: el semestre de otoño, la primavera y el verano. Permisos para motos cuesta $10 cada semestre. $5 por la sección de verano ó $20 por un permiso anual. El permiso anual solamente se puede comprar durante la matrícula en el otoño. Siempre hay que colocar su permiso dentro de su coche, colgándolo en el espejo retrovisor.

**COBRO DE SERVICIOS DE SALUD:** Debe pagar $12 por semestre (otoño y primavera) para cubrir servicios de salud personal. El costo en el semestre de verano es de $9 y les permite a los/las estudiantes que aprovechen varios servicios médicos. (Este servicio se cobrará aunque tome “0” unidades).

**Matrícula (Exámenes de inglés y matemáticas)**

La Oficina de Matrícula ofrece servicios que incluyen exámenes de inglés y matemáticas, análisis de los resultados de los exámenes, consejo académico y orientación y está ubicada en el Edificio de Servicios Para Estudiantes, salón 188. Su número de teléfono es el 949-582-4070.

**Ayuda Financiera**

Los estudiantes de la universidad comunitaria pueden ser elegibles para una variedad de programas de ayuda financiera incluyendo ayuda federal, ayuda estatal y becas de la comunidad. Si Ud. está interesado/a y piensa que puede ser elegible, llene una solicitud en la Oficina de Ayuda Financiera (SFAO), localizada en el Edificio de Estudiantes “Student Services Center”, oficina 106. El horario de asistencia al público es de lunes a viernes de las 8:00 a.m. hasta las 4:30 p.m. Durante el período de matrícula en persona, el horario es de lunes a jueves desde las 8:00am hasta las 7 p.m. y los viernes desde las 8:00 a.m. hasta las 4:30pm. Su número de teléfono es el 949-582-4860.
Programa de EOPS
El Programa de Servicios y Oportunidades de Educación Extendida (EOPS) sirve a personas que califican bajo todos los siguientes requisitos: 1. Residentes legales de California. 2. Bajos recursos económicos. 3. Desventaja de no tener una educación formal. 4. Estar matriculados/as en doce o más unidades (tiempo completo). El programa (EOPS) ofrece los siguientes servicios gratis para las personas que califican: orientación académica, ayuda con los libros de texto (si hay fondos), prioridad en la matrícula y ayuda de tutores/as, en caso de necesitar los/las para cursos que les sean difíciles.

Admission Requirements

El programa de tutoría (LAP) proporciona servicios de tutores grátis. Hay tutores de diferentes cursos académicos para satisfacer las necesidades de cada individuo. Hay instrucción privada y en grupo. LAP está situada en el primer piso del edificio de la biblioteca, LIB 114 – Tel. 949-582-4519.

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Admission Requirements

El Programa de Tutoría (LAP) proporciona servicios de tutores gratis. Hay tutores de diferentes cursos académicos para satisfacer las necesidades de cada individuo. Hay instrucción privada y en grupo. LAP está situada en el primer piso del edificio de la biblioteca, LIB 114 – Tel. 949-582-4519.

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5. A letter of recommendation from an instructor or school official addressing the applicant’s character and motivation.

All documents must be received by the Office of International Education at Saddleback College by July 15 (for the fall semester) and November 15 (for the spring semester).

Prior to application for admission, international student applicants must request an International Student Application packet available by telephone (949-582-4637), mail (Office of International Education, Saddleback College, 28000 Marguerite Parkway, Library 102, Mission Viejo, California 92692), or online (www.saddleback.edu, link to International Education). For student fees, refer to the Saddleback College International Education Web page or contact 949-582-4637.

Upon acceptance to Saddleback College, international students are expected to maintain at least 12 units each semester, a grade point average of 2.0 or higher, and have a valid health/accident insurance policy. For additional information, contact the Office of International Education at 949-582-4637.

New and Former Students

New students are those who have never filed an application or enrolled in classes at either Saddleback College or Irvine Valley College. Former students are those who have previously filed an application or attended either Saddleback College or Irvine Valley College but have been absent from the college for one semester or more, excluding summer.

Once an application is submitted a registration permit is issued indicating a student’s assigned registration time for telephone, WEB, and in-person registration. Appointments for a later time are issued on a first-come, first-served basis. Appointments cannot be made by telephone or mail. Students who apply on-line receive their registration permits by e-mail. Those who apply in person are issued their permits when they submit their application.

Most students new to Saddleback College, except those who have already earned an associate degree or higher degree, should participate in an assessment and orientation session prior to registering for classes. Students who are advised to participate in assessment and orientation will be notified at the time their application is received, and they will be issued an assessment appointment time. Students who are not advised to participate are encouraged to take advantage of an assessment session for assistance in selecting courses. The assessment process is described further under “Matriculation Services.”

Continuing Students

Continuing students are those who have been registered during the previous semester (including or excluding summer). Continuing students need not file an application. Continuing students receive their permits through the U.S. mail. Registration times are determined by the number of units the student has completed at the college. Those who have already completed more than 80 units are given appointments toward the end of registration. Students should refer to the class schedule for the most current information about continuing student registration.

If the Post Office reports a forwarding address that the student has filed, the college’s records will automatically be updated to reflect that change unless the student notifies the college in writing that the change should not be made.

General Education Development

GED preparation courses are offered through our three local school districts. Completion of GED requirements is not a requirement for admission to Saddleback College.

1. Saddleback Valley Unified School District
   Adult Education Office - 949-837-8830
   GED Preparation Course
   — Including pre-testing
   — Open entry/open exit
   — Meets at Silverado High School
   — Call for information/register with instructor
   — FREE

2. Capistrano Unified School District
   Capistrano Adult Learning Center - 949-493-0658
   31422 Camino Capistrano
   San Juan Capistrano, CA 92675
   Room 1
   GED Preparation Course
   — Daytime (M-F) or Evening (M,T, Th) classes
   — Full attendance not mandatory
   — Call for information/register at office
   — FREE

3. Laguna Beach Unified School District
   Laguna Beach Adult Learning Center
   Adult Education Office - 949-497-7725
   GED Preparation Course
   — Including pre-testing
   — Open entry/open exit
   — Meets at Laguna Beach High School
   — Call for information/register with instructor
   — FREE
   GED Testing is offered at the Capistrano Adult Learning Center only.
   — Test given three times per month
   — Call for exact test dates
   — $40 fee to be paid on testing date
Matriculation Services

Philosophy

Saddleback College acknowledges the importance of maximizing the student’s abilities to make individual choices based on accurate, relevant information and is committed to developing, implementing, and refining policy and procedures which are in the best interest of the student. The matriculation process brings the student and Saddleback College into a partnership agreement with the common goal of realizing the student’s educational goal through the college’s established programs, policies, and requirements.

The student agrees to:

1. Establish an educational goal
2. Attend classes
3. Discuss academic goals with a counselor
4. Use support services as needed
5. Make progress toward achieving a goal
6. Consider recommendations given by counselor/instructor

Saddleback College agrees to provide:

1. Resources and support services
2. Assessment and college orientation
3. Counseling and advisement
4. Courses in basic skills
5. Individual student educational plans
6. Career, learning, and transfer centers
7. Continued monitoring of academic success

Steps in the Matriculation Process

The matriculation process is designed to assist students in achieving their educational goal at Saddleback College. This process includes assessment, orientation, counseling/advisement, and follow-up services. Students who are required to matriculate must complete the first three steps in order to register for classes.

1. Assessment may include, but is not limited to, information regarding the student’s English language proficiency, math skills, aptitudes, goals, career aspiration, academic history, and needs for special services.

2. Orientation provides students with information regarding Saddleback College. Students learn about transfer and degree requirements, vocational programs, student services, and special programs.

3. Counseling/Advisement session helps students to determine their educational goal, plan first semester schedules, and prepare a “student educational plan.”

Follow-Up services monitor the students’ progress and inform and direct students who may be on probation or disqualification to appropriate services and programs for assistance.

Students at Saddleback College are encouraged to follow the matriculation procedures at their campus of attendance. If they attend Irvine Valley College they should be aware that some matriculation procedures at their campus of attendance. If they attend Irvine Valley College they should be aware that some matriculation procedures may be different.

The Matriculation Office is located in the Student Services Center, room 168. You may call us at 949-582-4970 or visit our Web site at http://iserver.saddleback.edu/serv/couns/matrice/.

Exemptions

Students have the right to be exempted from the assessment and/or orientation and advisement components of the matriculation process. They should go to the Matriculation Office, SSC 168, if they are interested in pursuing exemption in order to determine eligibility.

Retest Policy

Reading: Students may repeat the Nelson-Denny test during the semester in which the student will have a minimum of 45 units. English: Students may retake the English composition assessment no more than once a year. Mathematics: Students are allowed to retake the same level math test once every six months.

Alternative Matriculation Services

Students may be referred to alternative services for the matriculation process if they indicate the following:

1. That English is not their primary language and they do not feel proficient enough in English to take the regular English Placement Test
   OR
2. That they have a physical, visual, or communication limitation that might require accommodation in an educational setting
   OR
3. That they have difficulty with reading, writing, spelling, math, or understanding and remembering information.

All students are welcome and encouraged to participate in the matriculation process.

Prerequisites/Corequisites/Limitation on Enrollment/Recommended Preparation

Saddleback College is committed to helping students select appropriate level courses to provide the greatest chance for their academic success. Information relating to prerequisites, corequisites, limitation on enrollment, and recommended preparation are printed in bold as part of the course descriptions in the catalog and with an asterisk by the ticket number in the schedule of classes.

Students are responsible for meeting the prerequisite, corequisite, limitation on enrollment, or recommended preparation for any course in which they plan to enroll.

Prerequisite:

Mastery of a certain body of knowledge is necessary if students are to be successful in the target course (the course that has the prerequisite). Most commonly, such knowledge is measured by successful completion of the prerequisite course listed in the class schedule. “Successful completion” is defined by a grade of “A,” “B,” “C,” or “CR” in the prerequisite course. Grades that are not acceptable are “D,” “F,” or “NC.”

Corequisite:

Concurrent (simultaneous) enrollment in a companion course is required. The information presented or the practice gained in the corequisite course is considered necessary for success in the target course.

Limitation on Enrollment:

A condition of enrollment which limits how students qualify for a particular program. Limitations apply to courses that include public performance or intercollegiate competition where a tryout or audition is necessary. Some courses require formal admission to a particular program in order to enroll (e.g., Nursing, EMT, Paramedic, or Honors). Program limitations include special conditions that qualify a student for a service. Examples of program limitations would be DSPS, Financial Aid, or EOPS.
Recommended Preparation:

Certain course preparation is advised before students enter the target course. These recommendations indicate preparation that is considered advantageous, but not essential, to success in the target course.

How to Clear a Prerequisite

1. Complete the course(s) at Saddleback College with a satisfactory grade—that is, a grade of "A," "B," "C," or "CR," OR
2. Provide grade transcripts from another college. Such transcripts must demonstrate satisfactory completion of the prerequisite course—that is, completion of the course with a grade of "A," "B," "C," or "CR." OR
3. Complete an assessment exam at Saddleback College.
4. Provide evidence of completion of an assessment exam administered at another California community college. (In some cases, students may clear prerequisites in reading, writing, and mathematics if they have received recommended course placements from another community college. Students must check with the Matriculation Office regarding the acceptability of such placements.) Students must bring copies of their scores or transcript(s) to the Matriculation Office in the Student Services Center, Room 168, to waive the placement test portion of the assessment.

OR

*5. English course placement using high school transcripts: Upon completion of one of the following high school English courses students may be eligible for placement without assessment

—Capistrano Unified School District:
  • Research Methods—Grades 11-12
  • Advanced Placement Composition—Grades 11-12
  • Advanced Placement Literature—Grades 11-12

—Saddleback Valley Unified School District:
  • English 4 College Preparation, Advanced Placement English—Seniors Only—Grade B only
  • English 4 Honors and World Literature—Trabuco Hills High School—Grade A only

*Contact the Matriculation Office for participating high schools and grade requirements.

To clear an English or math prerequisite using a transcript: Present a copy of high school or college transcript(s) and college catalog description(s) to the Matriculation Office for evaluation. Complete the Equivalency Petition Form, attach transcripts and submit them to the Matriculation Office for evaluation. For all other prerequisites please go to the Division Office where the course originates.

NOTE: Please allow a minimum of two weeks prior to registration date. Delays in processing transcript evaluations will affect student's ability to enroll in target courses. Specific information regarding procedures, timelines, and transcript evaluation notification is available in the Matriculation Office. Courses offered for "zero unit" credit cannot be used to satisfy a prerequisite.

Appeal Procedure

State regulations require the enforcement of prerequisites. Any student seeking enrollment in a designated course must meet necessary enrollment requirements through either satisfactory completion of the prerequisite course OR appropriate placement results from the matriculation assessment process.

Prerequisites may be appealed by the student on the following grounds:

1. The student has the knowledge or ability to succeed in the course despite not meeting the prerequisite.
2. The student is able to succeed safely despite prerequisites established to protect health and safety standards.
3. The prerequisite or corequisite course is not reasonably available.
4. The college cannot provide alternatives to the course requiring performance standards as a prerequisite.
5. The prerequisite is discriminatory or is being applied in a discriminatory manner.
6. The prerequisite is not valid because it is not necessary for success in the course for which it is required.

English Composition Appeal Process

Students who receive a recommended placement in a basic-skills writing course, rather than a college-level writing course as a result of the initial assessment process, and who wish to be considered for placement in college-level writing, should attend the Writing Sample. During the session, students will complete an Appeals Petition and will be allowed to enroll in the higher level course.

An Appeals Committee will meet and review the writing sample within five working days. If the appeal is approved the student will be allowed to remain in the higher level course in which the student is registered. If the appeal is denied the student will be disenrolled from the higher level course.

Dates and times of the Writing Sample sessions are available in the Matriculation Office, SSC 168.

All Other Appeals

Students wishing to appeal a prerequisite based on one of the criteria listed above must file an Appeal Petition in the appropriate division office in which the course is offered. Students will be eligible to enroll in the higher level course while the appeal is under review. An Appeals Committee will review the petition and make a decision within five working days. If the appeal is approved the student will be allowed to remain in the higher level class. If the appeal is denied, the student will be disenrolled from the class.

Specific information regarding procedures, timelines, and appeal determination notification may be obtained in the Matriculation Office.

In most cases, students who file an appeal deem the transcript evaluation unacceptable or they consider themselves to have mastered the knowledge, experience, and/or skills required for the course when such skills have not been obtained through college course work. In either case, students should file an appeal based on (1) above.

Students’ Rights

Any student who feels they have experienced discrimination regarding the matriculation process has the right to file a grievance. Information may be obtained in the Matriculation Office.
Registration for Classes

Continuing students and new and former students may register online, by telephone, or in-person. After selecting classes and paying all required fees, registration is completed. Consult the Class Schedule for the most current registration information. Auditing classes is prohibited. Classes cannot overlap, i.e., students may enroll in only one course in a time period. Please be aware that proof of prerequisite completion or alternative evidence may be required.

Late Registration

Students who have not been able to register at the formal registration time may enroll late, although course selection may be restricted. The Office of Admissions and Records posts a list of closed classes. If space is available, students may add semester courses through the first week of instruction. Beginning the second week of instruction, students must have permission from the course instructor to enroll. This procedure is designed to ensure high academic standards. Those enrolling late are encouraged to consult the class schedule for information regarding short-term classes.

Waiting List

During the registration process, if a class is closed before instruction begins, students may request to be placed on a waiting list for that class and then attempt to petition for an add permit at the first class meeting. To petition a class, students must go to the first class meeting and inform the instructor that they are on the waiting list. If space is available, and the instructor approves a student's request to add the class, the instructor will give the student a class request card. Students must take signed and dated class request cards to registration in a timely manner to formally add classes to their schedules. Normally, instructors will add students to an open class in the order in which names appear on the waiting list if officially enrolled students have dropped prior to the first day of instruction. However, there is no guarantee that space will be available. Please note, not all courses have a waiting list.

Repeated Courses

Courses may be repeated under only two circumstances. Most courses may be repeated only when the student has earned a standard grade, that is, D, F, or NC. Previous grades and credits for courses which are repeated for this reason will be disregarded in the computation of the student's grade average. When these courses are repeated, credit will be given only once, and previously recorded coursework shall remain on the student's transcript. The transcript will show which courses were excluded for purposes of grade point calculation, ensuring a true and complete academic history.

Students planning to repeat a course to make up a substandard grade should repeat the course at the college where the course was originally completed.

In the second case, courses in which skill development may require instruction over more than one semester may be repeated. These classes are identified in the catalog and involve skills progression requiring intensive individual instruction in specific areas. The model under which a course may be repeated is presented by a code which includes R plus the model for repeating (Example R-A). This code is indicated following the course description in the Announcement of Courses section of this catalog. Students should be aware that most four-year universities have limitations on transfer credit for course repetitions.

Open Enrollment Policy

Pursuant to the provision of Title 5 of the California Code of regulations, commencing with Section 58102, the Governing Board of the South Orange County Community College District affirms a policy of open enrollment. Unless specifically exempted by statute, every course, course section or class, wherever offered and maintained by the district and where state apportionment is reported, shall be fully open to enrollment and participation by any person admitted to the college and who meets such prerequisites as established by the Board in accordance to the above-referenced section of Title 5.

Adding Courses

Semester courses may be added through the first two weeks of instruction. Consult the class schedule for information regarding short-term courses and open-enrollment courses (open-entry).

Withdrawal From Courses

Withdrawal from courses is the student's responsibility. Admissions and Records is the office designated to complete the formal process of withdrawing from a course (Section 484B, Higher Education Act).

Student Fees/Refunds/Credits

Associated Student Body (ASB) Fee

The $10 ASB card fee provides privileges to the individual student and supports, as part of the total student ASSC budget, a variety of student programs and services, such as Athletics, Fine Arts, Scholarships, Recreation Room, and many other student-sponsored activities. The fee, though optional for many students, is required for athletes, the forensic team, Lariat staff, and members of the Associated Student Government. All students are encouraged to pay this fee to support and/or participate in the variety of programs and services it provides. The ASB card fee is non-refundable.

Enrollment Fee

The Enrollment Fee is $11 per unit with no maximum. This fee is subject to change by the State of California.

Health Fee

All students who enroll in classes held at Saddleback College are required to pay $12 per regular semester and $9 for the summer session. This health fee entitles students to a variety of health services. Students enrolled only in off-campus classes at community instructional centers need not pay the health fee, but may elect to do so in order to use the Health Center services. Health fees may be subject to change during the academic year.
State law provides the following exemptions from the health fee. Students must submit proof for these exemptions at the time they register:

1. Students receiving financial aid pursuant to Section 72521.
2. Students who depend exclusively upon prayer for healing in accordance with the teachings of a bona fide religious sect, denomination, or organization.
3. Students who are attending a community college under an approved apprenticeship training program.

Material/Lab Fees
Many courses require a fee for materials and supplies. Such fees are noted in course descriptions in the schedule of classes.

Parking Fees
Students who intend to park in a student lot must purchase a parking permit each semester. The cost of an automobile permit is $20 per semester and $10 for Summer or $40 for an annual permit which includes Fall, Spring, and Summer (to be purchased in the Fall only); the cost of a motorcycle permit is $10 per semester and $5 for Summer or $20 for an annual permit which includes Fall, Spring, and Summer (to be purchased in the Fall only). If the student has a current automobile permit, the motorcycle permit fee is $1.00. Additional information can be found in the Parking section.

Returned Check Fee
Non-Sufficient Funds and Stop Payment Check Charge Policy
In accordance with California Civil Code Chapter 522, Section 1719, the District hereby establishes a processing fee for handling non-sufficient funds (NSF) and stop payment checks. The amount of the fee will be reviewed and approved annually by the Board of Trustees.

Each check dishonored by your bank for whatever reason is subject to a processing fee.
During the 2002-2003 school year, a $20 processing fee will be charged for all returned checks.
The Saddleback College bookstore is a contract service and is not subject to this policy. Please contact the bookstore for their check return policy.

Transcript/Verifications Fees
Each student who completes work at the College is entitled to transcripts as follows:

Transcripts: $3 each (the first two copies requested are free, in any combination with verification). PLEASE NOTE: Transcripts no longer include grades from Irvine Valley College. Students must request those grades from Irvine Valley College.

Emergency Transcripts: $5 each, in addition to the $3 transcript fee if the student has previously requested two transcripts and/or verifications. (Emergency transcripts are processed within four hours of the request, when available, during normal business hours.)

Verification of enrollment: $3 each (the first two copies requested are free, in any combination with transcripts).

To request an official transcript and/or verification of enrollment, students must complete the appropriate forms in the Admissions Office or submit a written request. Those submitting a written request must provide their full name (the name used while attending Saddleback College), birth date, social security number, student I.D. number, and the address they wish their transcript and/or verification mailed to. Students requesting a verification must also specify the information—grade point average, dates of attendance, number of units completed, etc.—they wish to have verified. Students must sign their full name at the bottom of their request letter to authorize the release of transcripts and verifications. Requests may be mailed to the following address:

Saddleback College
Office of Admissions and Records
Transcripts/Verification
28000 Marguerite Parkway
Mission Viejo, CA 92692

Verification of Fees Paid: $3 each (no charge for the receipt provided at time of payment). To request a verification of fees paid, please call the College Fiscal Office at 949-582-4870 or 582-4871.

Non-Resident Fees
- Application Fee
  Non-resident students who are citizens and residents of a foreign country will be charged a non-refundable fee of $39 at the time the application is submitted and each time an application is submitted.

- Capital Outlay Fee
  Non-resident students who are citizens and residents of a foreign country will be charged a fee of $12 per unit at the time of registration. This fee covers the cost of providing equipment and classrooms.

- Tuition Fees
  Non-resident students will be charged a tuition fee of $140 per semester unit for the 2002-2003 school year. Out-of-state residents must also pay the enrollment fee and health fee. Tuition may be changed without notice; changes will be published in the class schedule. Certain non-residents who have graduated from a California high school may qualify for an exemption of non-resident tuition due to recent legislation (California AB 540). Please call 949-582-4344 for information regarding this special exemption.

Refunds/Credits
A refund of a credit balance can be requested by completing a Refund Request Form. These forms are available in the Admissions and Records Office and the Fiscal Office or by calling 949-582-4870. Please allow 45 business days for processing refund requests. Categories for refunds in which a student may receive a credit are as follows:

- Associated Student Body (ASB) Card Credits
  Students are eligible for Associated Student Body Card Fee (ASB Card) credit only during the first two weeks of the semester in which the card was purchased, provided they have officially withdrawn from all classes. To qualify within this two-week period, the card may NOT have been utilized, and any issued card must be returned with the request.

- Enrollment Fee Credits
  Students are eligible for an enrollment fee credit only during the first two weeks (one week for short-term and summer classes) of the semester provided they have officially withdrawn from the class(es) or their class(es) have been cancelled by the college. Forms to request refunds of credits are available in the Office of Admissions and Records or Fiscal Office. Requests must be submitted to the Fiscal Office. Refunds may take up to 45 business days to process.

- Health Fee Credits
  Credits for health fees will be given when requested prior to the end of the second week of the semester (for full-semester) or prior to the fourth day of the first week that any less than full-term courses begin—provided the student has officially withdrawn from all on-campus classes or the student’s classes have been cancelled by the college.
Student Support Services

Bookstore
A variety of reading materials, personal-use items, new and used textbooks, a large selection of college logo items, class supplies, and packets are available at the college bookstore. The college bookstore is operated by Follett College Stores under contract with the district and Saddleback College. The Saddleback College bookstore is located in the Student Services Center, Room 133. Call 949-582-4715 for additional information.

California Work Opportunity & Responsibility for Kids (CalWORKS)
The CalWORKS program provides intensive instruction, counseling and support services such as childcare assistance as well as work experience/work study opportunities for students currently receiving AFDC benefits. This program assists students preparing for immediate and successful employment. The CalWORKS office is open Monday through Friday 8 a.m. to 5 p.m. It is located in the Student Services Center, Room 140. For more information, please call 949-582-4208.

Campus Preview Tours
Guided tours are available to any individual or group interested in viewing the campus. Tours depart from the Matriculation Office in the Counseling Center in the Student Services Center, Room SSC 166. Reservations are necessary. Please call the Matriculation Office 949-582-4070 to schedule a tour.

Career Services
The Career Services Center includes Career Guidance/Education Resource Services, Job/Career Search Services, and Re-entry and Women's Resources Services. Career Services provides a comprehensive approach to career and life planning and development. The Career Services Center is located in the Student Services Center, Rooms 139 and 140. For further information consult specific listing of services.

The Career Guidance/Education Resource Service is open to anyone who needs assistance with making career decisions. Educational and occupational information is available to explore at student's own pace. The resource materials include career information that describes duties, responsibilities, future career trends, and salary ranges; college catalogs; and transfer information. In addition, computerized programs with comprehensive demographic information and assessment tools are available at a nominal fee; by appointment only. The Career Guidance Service is located in the Student Services Center, Room 139. Regular hours are Monday through Thursday, 8 a.m. to 8 p.m. and Friday, 8 a.m. to 5 p.m. For further information, please call 949-582-4575 or visit our Web site at: http://iserver.saddleback.edu/serv/career/career.html.

The Job/Career Search Service helps current students and recent graduates make career decisions and achieve goals by providing help with: resume writing, interviewing techniques, and job search strategies. The service also offers full and part-time job opportunities related to students’ majors, as well as casual labor jobs to help students support their way through college. The job opportunities can be accessed via Monster TRAK, the services’ job referral database, 24 hours a day, 7 days a week via www.MonsterTRAK.com. The service also offers information regarding internships that are available through specific vocational majors. For a nominal fee, computerized career programs are offered to help students and community members identify their career interest (by appointment only). Regular hours are Monday through Friday, 8 a.m.-5 p.m. For more information, please call 949-582-4575 or visit our Web site at: http://iserver.saddleback.edu/serv/career/jcs.

The Re-entry and Women’s Center helps men and women who are searching for ways to return to school, change careers, or find new direction in their lives. The center provides advisement, workshops, support groups, and referral to community resources. The program is particularly committed to expanding community awareness of opportunities for men and women to assist those who are returning to complete educational training and to seek employment. The Re-entry and Women’s Center is located in the Student Services Center, Room 140C. Regular hours are Monday through Friday, 8 a.m. to 5 p.m. To make an appointment, please call 949-582-4611 or visit our Web site at: http://iserver.saddleback.edu/serv/rvc/
The Child Development Center offers educational opportunities and services primarily for registered pre-school children of Saddleback College students. Community members may also utilize the center. This program recognizes and supports the fact that parents with children are enrolled at the college. Furthermore, proper care for a child is often a determining factor in a parent’s decision to attend and succeed in entering college or a career. The center provides an educational experience and includes activities such as art, music, cooking, language arts, and science. Children eligible for enrolling in the pre-school program must be from 2 1/2 years through 5 years of age and must be toilet trained.

Priority is given to parents who have first registered at Saddleback (for 6 or more semester units). Additional to the program for children of Saddleback College students, space is available for community (non-students) members seeking a positive educational child development environment for their children. All interested parents, from throughout the community, are encouraged to contact the center for further information, including program options and current fee schedule.

The center is located at the south end of the campus on College Drive East (Parking Area 1A) across from the Campus Safety Office. The center is open during the day, Monday through Friday, from 6 a.m. to 6 p.m. Telephone 949-582-4582.

Counseling Services

Saddleback College provides complete counseling and career development services. These services include individual and/or group counseling for personal concerns and career decision-making; assistance with educational program planning and course selection; preparation for transfer, a degree, or a specific job; and assistance with beginning or returning to school. Students are encouraged to avail themselves of these services.

A major function of counseling is to provide students with information about themselves to assist them to succeed in their studies. Accurate information is essential in planning. Counselors serve as valuable resources in this process.

Counselors are available day and evening, either by appointment or on a drop-in basis. Appointments are especially recommended well in advance of registration periods. Each counselor has hours open for drop-in counseling, so that students with short questions not involving records or students in crisis may come in day or evening for assistance. Online advising is available at: http://iserver.saddleback.edu/serv/couns/advisor/. Online advising may not be used for such tasks as evaluating transcripts or personal counseling, but can be very useful for obtaining answers to a wide variety of counseling-related questions.

Saddleback College students wishing to make an appointment may call or stop by the Counseling Office located in the Student Services Center, Room 167. The number is 949-582-4572.

Credit courses listed under Applied Psychology are offered to assist students in gaining the most from college. For example, APSY 140 is a course designed to help orient the student to college life and assist them in education and vocational planning. In addition, there are opportunities for students to enroll in courses in Applied Psychology in such areas as career planning, study skills, testing, decision-making, and the helping relationship. Seminars and workshops on many related topics are also available.

Escort Service

Saddleback College provides a Security Escort Service between classrooms and other areas of the campus. Students wishing to use this service should phone 949-582-4585 or *11 on any on-campus payphone to make arrangements for a security escort.

Extended Opportunity Programs and Services (EOPS)

EOPS is an outreach and retention program designed to assist low-income and educationally disadvantaged students in achieving a college education. EOPS-eligible students may receive college and financial aid application assistance; priority registration; EOPS book service; academic, personal, and career counseling; tutoring; and assistance in transferring to four-year colleges and universities. Interested students should apply at the EOPS office in the Student Services Center, Room 126, or call 949-582-4620.

Cooperative Agencies Resources for Education (CARE):

As a supplement program of EOPS, CARE provides educational support services for EOPS-eligible students who are single heads of households receiving CalWORKS (California Work Opportunity and Responsibility to Kids). More information is available at the EOPS office in the Student Services Center, Room 126 or call 949-582-4620 or visit our Web site: http://iserver.saddleback.cc.ca.us/serv/couns/index.html.

Fiscal Office

The Fiscal Office is located in the Administration and Governance Building, Room 131. This office disburses financial aid checks; processes refund requests; and collects fees, fines, and payments on deferrals and returned checks. If you have a question about your account, please contact the office between 8 a.m. - 4:45 p.m. Monday - Thursday and 8 a.m. - 4:45 p.m. on Friday at 949-582-4670 or 582-4871.

Food Services

The Saddleback College Cafeteria/Food Court is located in the Student Services Center and provides students with a full range of food services. Vending machines are located throughout the campus. Students’ suggestions for food service may be submitted through participation on the food services committee. Student Development Office, or directly to the cafeteria manager. Catering of special events is also offered by the cafeteria. The cafeteria hours are Monday - Thursday 7 a.m. - 9 p.m., Friday 7 a.m. - 2 p.m.

Health Services

Saddleback College offers students a variety of health services. The center is staffed by registered nurses and physicians, and includes, to all students who have paid the mandated health fee, an accident insurance plan for college-related injuries. The fee charged for these health services is state-mandated for all students who take classes on campus.

The objectives of the Health Center are to provide professional services in the areas of prevention, recognition, and early treatment of illness, as well as the protection and maintenance of the health of the college student. In addition to these services, the center plans group and individual activities which will give students an opportunity to discuss a variety of topics relating to health including drugs, smoking, weight control, emotional problems, and physical disabilities. Literature related to many different health topics is also available. The Health Center is located in the Student Services Center, Room 177, phone 949-582-4606. The center is open Monday-Friday from 8 a.m. to 9 p.m. and Saturday from 8 a.m. to 1:00 p.m.

Interdisciplinary Computer Center

An interdisciplinary computer center located in Library, Room 111 is free to all students. Call 949-582-4411 for hours and other information. Computers for student use are also available on the 2nd floor of the library in the main reading room.
International Education Office

The International Education Office provides services to international students in the admission assessment, orientation, homestay, immigration visa application, and follow-up processes. For specific international students admission requirements, please see International Students Under Admission Requirements.

The International Education Office also coordinates special events on campus to promote global awareness and cooperates with community organizations in international friendship/partnership programs. The office is located in the Library Building, room 102. For more information about international students and other international educational programs, please call 949-582-4637.

Learning Assistance Program (LAP)—Tutoring

The Learning Assistance Program provides free tutoring for Saddleback College students. Varied tutoring services are available to satisfy student needs: One-to-one, small group, drop-in, and study-skills workshops.

The LAP, located on the first floor of the Library Building, Room 114, is open Monday through Thursday from 8 a.m. to 8 p.m., on Fridays from 8 a.m. to 2 p.m., and is closed weekends. Hours are subject to change and may be confirmed by calling 949-582-4519 or visiting our Web site at: http://iserver.saddleback.cc.ca.us/div/lib/.

Library Services

The James B. Ull Memorial Library, the first permanent facility built at Saddleback College, plays a leading role in the instructional program of the South Orange County Community College District. A professional staff of seven full-time librarians and additional associate librarians is available to assist faculty and students with research projects and in planning reading programs for instructional purposes and personal enrichment.

Available to faculty, students, and community members, the book collection of approximately 97,000 volumes is continuously supplemented by acquisitions in major subject fields. In addition to the more than 275 periodical subscriptions, the library’s resources include a computer database network for locating information in periodicals and newspapers, laser discs, videocassettes, tapes, records, slides, microfilms, maps, and newspapers. The online catalog includes the holdings of both the Saddleback College and Irvine Valley College libraries. More information about the library may be found by accessing the college’s Web site at www.iserver.saddleback.cc.ca.us/div/ir/.

Services available include free drop-in workshops as well as credit courses that instruct students in the use of print and electronic resources and the World Wide Web. Typewriters for student use are located in the Interdisciplinary Computer Center. Computers are available for student use on the main floor of the library (2nd level) and in the ICC on the library’s first floor, in Library 111, adjacent to the Learning Assistance Program.

Library Procedures Regarding Book Borrowing:

1. Students must present a Saddleback College photo ID.
2. Students are allowed nine items in circulation at any one time.
3. The loan period for books is 3 weeks. (special collection and reserve items may vary.)
4. An item may be renewed one time only either in person or by telephone unless the item is already overdue at the time the renewal request is made or another individual has requested the item.
5. Overdue items result in a hold that prevents the student from registering, adding, or dropping classes and receiving grades, transcripts or diplomas (California Education Code: 72237). To remove this hold, a $5 fee will be charged for each book returned after the hold has been placed.
6. Lost or damaged materials may be billed at replacement cost.
7. Books checked out at the Saddleback College Library must be returned to the Saddleback College Library.

Services for Veterans

The Veterans Affairs Office provides assistance to veterans in completing the papers required for education benefits. Veterans who qualify for education benefits are encouraged to take advantage of their entitlement, which must be used within ten years after discharge. Education benefits are provided to dependent children and spouses of veterans who died, or are permanently and totally disabled due to a service-connected disability.

The Veterans Affairs Office is located in the Administration and Governance Building, Room 131, 949-582-4871. This is a college service office, not a branch of the federal government.

Military personnel on active duty are not processed through the Veterans Office. Active-duty military must submit to the Office of Admissions and Records a Military Tuition Assistance form signed by the Commanding Officer of Joint Education. This form is available on base at the Education Office.

Special Services for Students with Disabilities

The Special Services Program at Saddleback College provides support services and specialized instruction for students with disabilities. Documented verification of disability is required and students must apply in the Special Services Office to see if they are eligible to receive support services.

The following support services are available for eligible students at Saddleback College: Academic, personal, and vocational counseling; early registration; test-taking facilitation; mobility orientation and campus-accessibility maps; notetaking, reader, and transcription services; enlargement of printed materials; textbook recording; tape recorders; adapted computer labs; sign-language interpreter services; and liaison with faculty and community agencies. In addition, Special Services offers specialized courses in strategy training, basic skills, lipreading, and adapted computer and adapted physical education. Arrangement for support services must be made in advance. Access and medical parking permits can be obtained at the Campus Safety Office.

For further information on services and instruction for students with disabilities at Saddleback College, contact the Special Services Office in the Student Services Center, room 113 or call 949-582-4885 or Telecommunication Device for the Deaf 949-582-4833 or visit our Web site at: http://iserver.saddleback.cc.ca.us/serv/cours/index.html

Any concern regarding access to programs and services be directed to Vern Hodge, 504 Officer/ADA Coordinator at 949-582-4666, or Randy Anderson, Director of Special Services at 949-582-4885, Saddleback College, 28000 Marguerite Parkway, Mission Viejo, CA 92692.

Student-Faculty Conferences

The faculty members of Saddleback College maintain office hours to consult with students concerning class assignments, methods of studying in particular courses, review of test results, other measures of academic achievement, and advisement for program planning when appropriate. Check with the division office for faculty members’ scheduled office hours.
Student Financial Assistance Program

For students needing help with the costs of attending Saddleback College, the Student Financial Assistance Office (SFAO) may be able to help.

The basic premise of financial aid is that no student should be denied access to the educational experiences offered because of lack of funds. The awarding of these funds is closely regulated by laws designed to direct educational support funds to those who need them most. In order to determine a student’s need and decide if a student qualifies, the applicant must answer many questions. Students should be patient with the application process and give correct information. Remember, a goal of financial aid is to be certain that everyone is given equal opportunity.

The completed application is the “Free Application for Federal Student Aid” (FAFSA). Information from the FAFSA form makes it possible to determine each student’s “need level.” (“Need” is the difference between the total cost of attendance and the available resources from the student and/or the student’s family.) Once a need figure has been established, an award package designed to meet the applicant’s needs can be offered.

In order to receive financial aid, the student must:

1. Be a national of the United States, or be in the United States for other than a temporary purpose and intend to become a permanent resident thereof, or be a permanent resident of certain Pacific Islands. Holders of student visas are not eligible for aid.

2. Be accepted for enrollment as at least a regular student or, in the case of a student already attending the institution, be enrolled and in good standing.

3. Be enrolled in an eligible degree or certificate program that only admits students who have a high school diploma or a recognized equivalent.

4. Regular students who do not have a high school diploma or equivalent may be eligible, if they demonstrate that they have the “ability to benefit” from the training offered and are beyond the age of compulsory school attendance. Further information may be obtained from the SFAO.

5. Maintain satisfactory progress in the course of study according to the standards and practices of the institution.

6. Not be in default on any loan made from a student loan fund and not owe a refund on grants previously received.

7. Be in need of financial assistance in order to pursue a course of study at Saddleback College.

Financial Assistance Programs offered through Saddleback College include the following:

Federal Pell Grant
Board of Governors Fee Offset Waiver Program (BFAP)
Federal Supplemental Educational Opportunity Grant (FSEOG)
Extended Opportunity Program and Services Grant (EOPG)
California Grant Program
Bureau of Indian Affairs Grant (BIA)
Saddleback College Scholarship Program
Federal Work/Study (FWS)
Federal Perkins National Direct Student Loans (Formerly NDSL)
Federal Stafford Loan (Formerly California Guarantee Student Loans (SGL)
Saddleback College Emergency Loan Program

Return of Title IV Funds (HEA)

When a recipient of Title IV grant or loan assistance totally withdraws from Saddleback College prior to 60% of the enrollment period, federal law “Return of Title IV funds” will require repayment of Title IV funds, (Federal Financial Aid).

Drug Conviction—A student is ineligible to receive Title IV, HEA program funds if the student has been convicted of an offense involving the possession or sale of illegal drugs.

For additional information on Title IV requirements, please contact the Student Financial Assistance Office, in the Student Services Center, Room 106, phone 949-582-4800.

Warning: Applying for a loan is serious business. A loan is not a gift. Students must maintain and complete at least a 1/2 time enrollment status for the loan period. It must be repaid with interest after they finish or withdraw from school. Failure to repay will hurt their credit rating and may prevent them from securing a car, house, or other credit at a future date. It is easy to borrow but much harder to repay. Think carefully before you borrow—will you be able to pay it back?

Student Permanent Photo ID’s

Student Photo ID’s can be taken in SSC 211 by calling 582-4600 ext. 2120 to schedule an appointment. To be issued your one-time permanent Photo ID, you must have your student number with you and be currently enrolled. Student Photo ID’s are free, any lost or stolen cards are $7.50 and can be purchased in the Fiscal Office (AG Building). Your student Photo ID is required for college services, including the library. If you have any questions, please contact the Student Affairs Office at 949-582-4616.

Transfer Center

The Transfer Center provides information and services and sponsors special events for students who are preparing to transfer to four-year colleges and universities. The center provides information about transfer programs, and general education requirements and arranges appointments with representatives from four-year colleges and universities. Applications for admission to California State University (CSU) and University of California (UC) are available in the Transfer Center office. The Transfer Center sponsors mini-fairs during the spring and fall semesters and a Transfer Day in the fall semester with representatives from colleges and universities throughout California and out-of-state universities and conducts workshops on the transfer process. Resources available for student reference are college catalogs, articulation agreements, online computer resources, and consultation with staff. The Transfer Center office is located in the Student Services Center, Room 140-G. For more information, phone 949-582-4328 or visit our Web site at: http://iserver.saddleback.edu/serv/trans/.
Student Activities/College Life

Alumni Association

The mission of the Alumni Association is to help re-establish old friendships while supporting the College. The Alumni Association hosts a variety of events and activities throughout the year that bring former and current students together. For more information, contact the Student Development Office at 949-582-4616.

Associated Students of Saddleback College

Saddleback College supports the organization of students known as the Associated Students of Saddleback College. The association promotes the following objectives:

1. To serve as an active student voice in the operation of the college, including both shared governance and the management of student activities.
2. To provide an opportunity for leadership experience and training for students.
3. To enhance, wherever possible, the general excellence of the college, unifying the interests of all persons—faculty, administration, local residents, and students.

Associated Student Government/Shared Governance

Since virtually all major decisions made at Saddleback College affect students in some way, student input to the various decision-making bodies is relevant, necessary, and welcomed. The Associated Students have adopted a constitution which established an organized "student voice" at Saddleback College. The "voice" is facilitated by the Associated Student Government and is a critical constituency among the college governance structure.

The Associated Student Government’s Executive Cabinet, Student Senate, and Student Judicial Court hold regular meetings typically in the ASG Conference Room, Student Services Center, Room 208. Meeting days and times are arranged at the beginning of each semester and agendas are posted 72 hours in advance. Meetings are open to the public and college community. Additional information regarding student government is available through the Student Development Office (949)582-4490.

Associated Student Services and Activities

With the support of the student body, the Associated Student Government plans, organizes, promotes, sponsors, and finances a comprehensive program of activities and services for all Saddleback College students. The activities program is organized to achieve the following objectives:

1. To provide opportunities for the development of the social and cultural interests of the entire college community.
2. To provide opportunities for the enrichment of each individual's life through sharing and enjoying a group spirit of mutual responsibility, leadership, and creativity.
3. To promote college spirit and community awareness. The variety of departments, clubs, and facilities permits a student to express a broad spectrum of interest, including but not limited to music, art, drama, sports, ecology, community service, and business.

Associated Student Body Card

The Associated Student Body provides an excellent program of activities and services. The funding for this program comes, in part, from the sale of A.S.B. cards, which students are encouraged to purchase during registration. This card provides the holder with free admissions to athletic events as well as special discounts on many other college events. This card may also be purchased during telephone registration or at the Recreation Room ticket office, SSC 211, during posted hours. For additional information, please contact Student Development, SSC 210 at 949-582-4616.

Athletics and Related Activities

Saddleback College fields 19 intercollegiate athletic teams which compete in one of the most competitive community college conferences in the nation. Participation on these intercollegiate athletic teams is open to any Saddleback College student enrolled in 12 or more units (other eligibility rules apply). Men's intercollegiate teams include: Baseball, basketball, cross country, football, golf, swimming, tennis, track, and water polo. Women's intercollegiate teams include: Basketball, cross country, golf, fastpitch softball, swimming and diving, tennis, track and field, volleyball, water polo, and women's soccer.

The athletic programs are supported in part by the Associated Student Body at Saddleback College. Revenue generated from attendance at athletic events helps support the entire student activities program.

For more information on the athletic program, please contact either the Athletic Department 949-582-4547 or the Sports Information Office 949-582-4490.

College Student Organizations/Clubs

Saddleback College offers a wide spectrum of special interest and program-related clubs and associations for student participation complementary or additional to class enrollment.

Information on how to organize a new club or join an existing one is available in the Student Development Office. College clubs include Alpha Gamma Sigma (Honor Society), Biological Society, International, Sign Language, and many others from which to choose. Current club listings are printed in the class schedule.

An Interclub Council (ICC), consisting of representatives from each club, exists to coordinate events and activities and share ideas. A “Clubs Information Week” is held near the beginning of each semester. Information is available in SSC 211.

Cultural Activities

The Associated Student Government cooperates with and supports departments and special-interest groups to contribute to the cultural awareness of all persons on the campus. Typical programs include: Black History, Latin Heritage, Native American Awareness, Multicultural Experience, musical and dramatic programs, art shows, and many other outstanding cultural programs. These programs are all open to people from the College and community which are supported through the sale of ASB Cards.
Fine Arts

The Fine Arts program at Saddleback College is known nationally as one of the largest and finest. Saddleback College graduates go on to careers in every aspect of the visual and performing arts. The departments of Art, Music, Speech, Communication, Theater, Dance, and Photography serve students of all ages. Instruction is designed to prepare students for transfer to four-year schools, as well as for employment upon graduation. State of the art facilities and extensive and innovative opportunities to put learning into practice in the community make Saddleback College a logical choice. Students have numerous opportunities to perform as part of choral and instrumental groups, and five student theatrical productions (including one musical) per year. In addition, the program boasts an Art Gallery featuring student, faculty, and guest artist exhibitions, as well as instruction in gallery display/exhibition, a yearly student art sale, and the opportunity to compete on a national level as part of a forensics team which consistently ranks first in the nation. Saddleback students receive valuable "real world" experience at the undergraduate level. For more information on academic programs, visit our Web site at www.saddleback.edu or call 949-582-4747.

Saddleback College is also home to the award-winning Saddleback Civic Light Opera (SCLO), South Orange County’s only professional summer musical theater company. Presenting three Broadway musicals each summer since 1978, SCLO has brought quality, affordable musical theater to over 350,000 adults and children. In addition, each fall and spring, Saddleback College Performing Arts brings performing artists from around the world to its 400-seat McKinney Theatre. For more information visit our Web site at www.saddleback.edu or call 949-582-4763.

Foundation

Contributions to benefit Saddleback College students may be made through the Saddleback College Foundation. The consistent excellence of educational, cultural, and athletic programs would not be possible without the ongoing support of the community. Gifts of cash, personal property, insurance, or securities are welcome. The Foundation can also establish endowments to ensure the perpetuity of gifts, trusts, bequests, or annuities. The Foundation is organized exclusively for charitable and educational purposes as a 501 (c)(3) of the Internal Revenue Code. The Foundation acts as the fiscal agent for all contributions received from the public and is responsible for ensuring appropriate distribution of funds to college scholarships, projects, and programs. For more information or to make a gift, call 949-582-4479 or e-mail us at scfound@saddleback.edu

Honor Societies

As part of its commitment to academic excellence, Saddleback College is home to a growing number of prestigious student honor societies.

The two campus-wide honor societies, Alpha Gamma Sigma and Phi Theta Kappa, are involved in community and college service activities, scholarship fund-raising, social activities, and leadership development. They are open to day and evening students of all majors, whether part-time or full-time. Within each society, scholarships are available from the local chapter, from the parent society, and from four-year colleges and universities who reserve scholarship monies for society members. Membership and officer service are noted on Saddleback transcripts.

Alpha Gamma Sigma, the California community college honor society, was established in 1922 as an extension of the California Scholarship Federation. It has had a strong presence on the Saddleback campus for many years. Students who have completed 12 semester units and have a cumulative GPA of 3.0 may apply to join Saddleback’s Sigma Epsilon chapter. In order to maintain membership, students must apply and pay dues each semester.

Phi Theta Kappa, the international community college honor society, was established in 1918 and now has over 1200 chapters. Chartered in December 1996, Saddleback’s Beta Epsilon Beta chapter was the largest at induction in the society’s history. Students with a minimum 3.50 cumulative GPA on at least 12 units are invited to join. Phi Theta Kappa offers lifetime membership; upon paying initial dues, students remain members so long as their cumulative Saddleback GPA does not fall below 3.25 for more than one semester.

Discipline-specific honor societies on campus include Lambda Alpha Delta, the anthropology society; and Psi Beta, the psychology society.

For further information about these societies, contact the Honors Program Office (Lib 112) at 949-582-4853.

Media and Publications—Journalism

Several publications are available to the College and community. The Lariat, a standard-size newspaper published by journalism students, is distributed weekly during the regular academic year. Journalism program students also publish a Saddleback Magazine once a year in the spring semester. In addition, the Liberal Arts Division publishes “Wall”, a literary journal featuring the creative writing and artwork of Saddleback students.
**Students’ Rights and Responsibilities**

**Rules and Regulations for Student Behavior**

Saddleback College students are responsible for regulating their own conduct and for respecting the rights and privileges of others. Saddleback students are expected to conduct themselves in a manner compatible with the function of the college as an educational institution and respect and obey all civil and criminal laws. Failure to show respect for the standards as set forth by Saddleback College is cause for disciplinary action.

**Code of Conduct**

Guidelines for student conduct are set forth in the California Education Code, California Administrative Code, Title 5, policies of the Board of Trustees, and all civil and criminal codes.

In compliance with California Education Code Section 66300 and Board of Trustees, and all civil and criminal codes.

In keeping with the above, the following regulations have been established to effectively and efficiently guide the approved educational programs, approved student activities, and community services.

A student may be disciplined for one or more of the following causes, which must be college-related to college activity or attendance.

- Theft of or willfully cutting, defacing, or otherwise injuring in any way any property, real or personal, belonging to the college, a member of the college, or campus visitor.
- Forgery, alteration, or misuse of college documents, records, or identification, or knowingly furnishing false information to a college.
- Cheating or plagiarism in connection with an academic program at the college.
- Physical or verbal abuse, or any threat of force or violence directed toward any member of the college or a campus visitor engaged in authorized activities.
- Use, possession, distribution, or being under the influence of alcohol, narcotics, or other dangerous drugs on campus at any time, or off campus, at any college-sponsored event.
- Unauthorized entry into, unauthorized use of, or misuse of college property.
- Disorderly, lewd, indecent, obscene, or offensive conduct on college-owned or controlled property or at a college-sponsored event.
- Possession or use of any firearms, explosives, dangerous chemicals, or other potentially harmful implements or substances while on the college campus or at a college-sponsored function.
- Failure to comply with directions of college officials acting in performance of their duties including, but not limited to, the provisions of the Penal Code Sections 626.6 and 626.8.
- Obstruction or disruption on or off campus of the college’s education process, administrative process, or other college function.
- Violation of any order of the college president, notice of which has been given prior to such violation and which order is not inconsistent with any of the other provisions of this policy. This notice may be given by publication in the college newspaper, or by posting on an official bulletin board designated for this purpose.
- Soliciting or assisting another to do any act which would subject a student to expulsion, suspension, probation, or other discipline pursuant to this policy.

- Any other cause not listed above which is identified as good cause by Education Code Sections 76032 and 76033.
- Attempting to perform any previously identified act that constitutes a cause for disciplinary action.

**Academic Honor Code**

Saddleback College students are responsible for regulating their own conduct in accordance with the Code of Conduct set by the District Board of Trustees. The Code of Conduct is outlined in the Student Handbook, which is free to all students. It is each student’s responsibility to adhere to an academic honor code, which upholds the integrity of the institution and the educational process so that all students have an equal opportunity to demonstrate their academic abilities. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to:

**Cheating**

Cheating is any act or attempted act of fraud, deception, or distortion of the truth by which a student misrepresents mastery or understanding of academic information or material. Cheating includes, but is not limited to:

- The use of unauthorized sources of information during tests. This would include, but is not limited to, crib sheets, electronic devices, dictionaries, tests, and/or other aids excluded by the instructor. It also includes any act or the use of any item which would be deemed as cheating by a reasonable person.
- Looking at another student’s exam or using another’s exams, assignments, or other work, or allowing another student to do so.
- Completing an exam or assignment for another person, or allowing another person to complete any part of an assignment or exam for one’s self.
- Altering graded class work and resubmitting that work for reconsideration.
- Engaging in any kind of unauthorized assistance or communication with another person during an exam.
- Purchasing, copying, accepting, stealing, or otherwise obtaining exam information, assignments, or other classwork.

**Plagiarism**

Plagiarism is the inclusion in total or part of another’s words, ideas, work, material, or data as one’s own. Plagiarism includes, but is not limited to:

- Quoting or paraphrasing materials without citing the source in some acceptable manner and submitting those materials as one’s own work.
- Copying, using or borrowing another’s ideas, assignments, test answers, labwork, research, report, term paper, computer program, file or data, etc., and submitting it as one’s own work or allowing another student to do so.
- Submitting as one’s own work, work prepared by others or prepared in collaboration with others.
- Reproducing another’s work so closely that any reasonable person would, after careful evaluation of the circumstances, conclude that plagiarism has occurred.

**Falsification/Fabrication**

Any acts of inventing or altering information in order to deceive is considered falsification or fabrication. Falsification or fabrication includes, but is not limited to:

- Inventing and submitting of falsified, fabricated, or fictitious information or falsely attributing the source as coming from another person or material.
Falsifying signatures on required forms or other academic records.

Using another person’s identification, falsifying one’s identification, or representing one’s self as another person. Changing official academic records or documents, without going through a proper approval process.

Knowingly misrepresenting successful completion of prerequisites.

**Recommended Range of Sanctions and Disciplinary Actions**

In matters of alleged academic dishonesty, the responsibility for initiating disciplinary proceedings rests with the instructor and the instructor’s academic division. The Vice President for Student Services will assist if the student or the instructor so requests, or if such action is deemed necessary by the Vice President for Student Services. The following disciplinary actions and procedures are not meant to be a comprehensive list, but are guidelines. Students should be notified, verbally or in writing, in regard to unacceptable behavior, and potential disciplinary action. For matters involving stronger disciplinary sanctions, the faculty member is advised to file a written report with the Vice President for Student Services.

**For Mattersrequiring Mild Discipline**

- The student is given a verbal or written warning about some unacceptable behavior.
- The student is moved to another seat and warned.
- Advise the student that all future work will be closely monitored.

**Stronger Disciplinary Actions**

- Assign additional work, or have the student rewrite the assignment, or take another version of the test, paper, etc. This must be completed by the student or the faculty member may move to a stronger disciplinary action.
- Lower the grade on the assignment or test.
- Give the student a zero or an "F" on that assignment or exam. If there is an option to drop the lowest grade, the option will not apply in this case.
- Assign an "F" for the course.
- Expulsion from the course.
- Request that the Vice President for Student Services suspend or expel the student from the institution.

**Removal from Class by Instructor**

An instructor may remove a student from class for the day of the incident and the next class meeting for any of the causes set forth in the South Orange County Community College District Student Code of Conduct, Article II (printed in the student handbook), which includes cheating, plagiarism, class disruption, etc. The instructor shall immediately report the removal to the Vice President for Student Services. The Vice President will take the appropriate action, including any necessary parent conference if the student is a minor. During the period of suspension, the student shall not be returned to the class from which he or she was removed without the concurrence of the instructor (Administrative Regulations 5401, IV, and the California Ed. Code, Section 76032).

**Faculty Code of Ethics and Professional Standards**

The following Ethical Principle and Standard of Conduct relating to the professional responsibility of faculty for students is endorsed by the Saddleback College Academic Senate. Conduct that departs from these principles is viewed by faculty as unacceptable because it is inconsistent with the mission of the college, and with the highest standards of professional conduct which we, as a faculty, are committed to maintain.

**Ethical Principle:**

"As teachers, professors encourage the free pursuit of learning in their students. They hold before them the best scholarly and ethical standards of their disciplines. They demonstrate respect for students as individuals, and adhere to their proper roles as intellectual guides and counselors. Professors make every reasonable effort to foster honest academic conduct and to ensure that their evaluations of students reflect each student's true merit. They respect the confidential nature of the relationship between professor and student. They avoid any exploitation, harassment, or discriminatory treatment of students. They acknowledge significant academic or scholarly assistance from them. They protect their academic freedom." (American Association of University Professors Statement, 1990)

**Standards of Conduct:**

- Faculty treat all students with fairness and respect.
- Faculty encourage the free exchange of ideas between themselves and students.
- Faculty conscientiously strive to be fair and balanced in their evaluation of student work.
- Faculty should not exploit their students for personal gain.
- Faculty should be fair and objective when providing references for students.
- Faculty shall not disclose information about students obtained in the course of professional service unless disclosure serves a compelling professional purpose or is required by law.
- Faculty-student personal relationships are unethical when they hinder any student's academic progress or create a situation in which any student is either favored or negatively impacted on grounds other than academic performance.
- Because a teacher-student relationship is inherently unequal, a member of the faculty should not enter into a sexual relationship with his/her student while engaged in a professional relationship.
- Faculty have the obligation to meet classes as scheduled, to maintain office hours, and to provide reasonable means for student access to course information.

The complete Faculty Code of Ethics and Professional Standards is available in the Administration and Governance Building (AGB), Room 106 or at http://server.saddleback.cc.ca.us/gov/senate/acsen/acsen/ethics.html.

**Grievances**

**Disciplinary Grievance**

A due process procedure has been adopted by the Board of Trustees (BP 5401). These procedures are printed in the Student Handbook and are available in the office of the Vice President for Student Services.

**Nondiscrimination and Harassment Policy**

The South Orange County Community College District prohibits discrimination on the basis of race, color, religion, national origin, age, disability, sexual orientation, marital status, or pregnancy. The District is committed to providing equal opportunities for all individuals in all programs and activities which it conducts. Therefore, no student enrolled in or employee employed by the South Orange County Community College District, or applicant for enrollment in or employment with the South Orange County Community College District, or others who might receive the benefits of college activities, programs, and services shall be excluded from participation in, denied benefits of, or be subject to discrimination or harassment in any process, position, program, service, or activity.
Students' Rights and Responsibilities

Discrimination and Harassment Complaint Policy

The South Orange County Community College District is committed to providing equal opportunities for all individuals in all programs and activities and a working and learning environment that is free of discrimination and harassment. In keeping with this commitment, the district maintains a strict policy prohibiting unlawful discrimination and harassment, including sexual harassment. This policy applies to students; applicants for admission to academic programs, activities, and services; employees; and applicants for employment. Students and employees who violate this policy are subject to disciplinary action.

Discrimination and/or harassment on the basis of race, color, sex, religion, national origin, age, disability, sexual orientation, marital status, or pregnancy are prohibited under state and federal statutes and district policy.

Discrimination includes denial of the benefits of employment or a community college activity or program on a basis prohibited by law. Harassment includes a hostile, intimidating, or offensive learning or working environment created on the basis prohibited by law.

ADA Academic Adjustments

Students with verified disabilities who believe they have not been given reasonable academic accommodations are urged to immediately contact Special Services, 949-582-4885, to see if their concerns or issues regarding accommodation and/or district policies can be satisfactorily resolved. A copy of the Saddleback ADA Academic Adjustment Procedure is available on request.

Formal complaints may be filed in the Office of the Vice President for Student Services, ADA/504 Officer, Student Services Center, Room 107, 949-582-4566.

According to the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, individuals with disabilities may file a complaint with the Office for Civil Rights, U.S. Department of Education.

Sexual Harassment

Sexual harassment is a form of sex discrimination. Sexual harassment is unwanted sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when submission to or rejection of this conduct explicitly or implicitly affects an individual’s employment or learning environment, unreasonably interferes with an individual’s performance, or creates an intimidating, hostile, or offensive work or learning environment. Sexual harassment may include but is not limited to unsolicited written, verbal, physical, and/or visual contacts with sexual overtones (examples: jokes, slurs, epithets, assaults, cartoons, posters, or pictures) or implying or actually withholding grades earned or deserved as acts of reprisal.

Individuals who engage in the behavior identified in this statement of nondiscrimination are in violation of state and federal statute and district policy and are subject to disciplinary action up to and including student suspension and/or expulsion and employee termination.

Individuals who feel they have been subjected to discrimination or harassment, including sexual harassment, and want to file a charge of discrimination or would like additional information should contact the Director, Human Resources, LIB 325, 949-582-4360 or the Vice President of Student Services, SSC 107, 949-582-4566.

Office of Human Resources
South Orange County Community College District
28300 Marguerite Parkway, Library Room 327
Mission Viejo, CA 92692
949-582-4349

Remedies may be available to individuals who have been found to be victims of unlawful discrimination or harassment.

Disability Discrimination

Students who have specific questions related to disability discrimination are encouraged to contact Special Services at 949-582-4885, Student Services Center, Room 113. Formal complaints may be filed in the Office of the Vice President for Student Services, ADA/504 Officer, Student Services Center, Room 107, 949-582-4566.

Grade or Instructional Grievance

When a student has a concern regarding a grade or instructional issue, an attempt should be made to solve the problem informally by discussing it with an instructor or an appropriate college official. Board Policy 5505 outlines a formal instructional and grade grievance procedure. The procedures to be used when a grievance is contemplated may be obtained from the office of the Vice President for Instruction, Administration and Governance Building, Room 134 and also are listed in the Student Handbook available through the Counseling Office, Matriculation Office, and Vice President for Student Services Office (SSC 107).

Student Right-to-Know Disclosure

In compliance with the Student Right-to-Know and Campus Security Act of 1990, it is the policy of Saddleback College to make available its completion and transfer rates to all current and prospective students.

Information about Student Right-to-Know rates for Saddleback College and how they should be interpreted can be found at the California Community Colleges’ “Student Right-to-Know Information Clearinghouse Web site” located at http://srtk.cccco.edu.

Parking

Complete parking rules and regulations are available in the Office of Campus Safety and Security (Parking Lot 1).

The following portion of these parking regulations provides important information.

Article III: Speed Regulations

Section 301: No person shall operate a motor vehicle or bicycle within the confines of Saddleback College campus at a speed greater than 15 miles per hour or as posted, except for emergency vehicles.

Section 302: No person shall operate a motor vehicle or bicycle at a speed greater than is reasonable or prudent.

Article IV: Parking Regulations

Section 401: Painted curbs are an indication of restricted parking and the color denotes the type of parking allowed. The following color code is adopted:

- Red Zone - indicates no parking or stopping anytime whether the vehicle is attended or not.
- Yellow Zone - indicates an area for loading and unloading of vehicles and the parking of service vehicles.
- Green Zone - indicates a parking time limit of 15 minutes.
- Blue Zone - indicates handicapped person’s parking area only by permit.

Section 402: No person shall park in an area posted or marked “Handicapped Parking by Permit Only” unless a valid handicapped permit is properly displayed on the vehicle.
Section 403: No person shall park in an area posted or marked “Parking by Permit Only” unless a valid parking permit is displayed on the vehicle.

Section 404: No student, faculty or staff member shall park in an area posted or marked “Visitor Parking Only.”

Section 405: No person shall stop, park, or leave standing any vehicle in an area posted or marked “No Parking,” regardless of whether or not the vehicle is attended.

Section 406: No person shall stop, park, or leave standing any vehicle in any area where the curb is painted red, regardless of whether or not the vehicle is attended.

Section 407: When signs or markings which prohibit or limit parking are erected on any street, road, or area, no person shall park or leave standing any vehicle upon such a street, road, or area.

Section 408: No person shall park or leave standing a motor vehicle on the interior of any campus or on any sidewalk, pathway, landscaped area, or field that is not designed for parking.

Section 409: No person shall park or leave standing on any campus a motor vehicle that blocks any traffic lane, roadway, or parking lot.

Section 410: Motorcycles and bicycles must be parked in designated areas.

Section 411: All vehicles shall be parked clearly within a designated parking stall.

Section 412: All vehicles shall be parked heading into a parking stall.

Section 413: Meter payment is required for parking in metered spaces during the hours posted on the meters. Parking permits do not authorize parking in metered spaces.

Section 414: No vehicle shall be left parked on campus after 11 p.m. or before 6 a.m., except by special permit.

Article V—Abandoned Vehicles

Section 501: No person shall abandon or leave standing any vehicle on any campus for 72 or more consecutive hours. All such vehicles will be stored under authority of Section 21113A of the California Vehicle Code.

Section 502: Any person who abandons a motor vehicle on any campus will be responsible for all towing and storage charges.

Parking Permits

Section 601: All parking permits will be issued under the authority of the Department of Campus Safety and Security.

Section 602: A valid parking permit must be visibly displayed and securely attached on any vehicle parked in a numbered parking lot (metered spaces excepted) during posted hours: Monday through Thursday, 7 a.m. to 10 p.m.; Friday, 7 a.m. to 5 p.m. Students may exchange parking permit for static-cling permit at Campus Safety.

Section 603: Staff Parking Permits for automobiles and motorcycles will be issued to employees of the South Orange County Community College District, excluding student help and college work/study students. All employees who qualify for Staff Parking Permits will be required to renew their staff parking permits annually/semester, not later than the first day of classes each semester. These parking permits will allow parking in areas posted or marked “Staff Parking by Permit.” These permits are not valid in metered areas. Staff Parking Permits may be purchased from the Department of Campus Safety and Security at Saddleback College or from the Office of Student Services at Irvine Valley College.

Section 604: Student Parking Permits will allow parking in areas posted or marked “Student Parking by Permit.” These permits are not valid in metered areas. Student Parking Permits may be purchased during the student registration process or from the Department of Campus Safety and Security at Saddleback College or from the Office of Student Services at Irvine Valley College.

Students’ Rights and Responsibilities

Section 607: Disabled Parking Permits—Persons who are disabled will be issued a disabled parking permit. The disabled parking permit will allow persons to park in the restricted handicapped areas or in any other legal parking stall on campus. Application for a disabled parking permit may be obtained from the Special Services department. Applications or renewal of these permits shall be supported by a statement of the physician indicating probable time of disability. Upon the approval of an application by the Special Services department of Saddleback College, the Special Services department will issue a disabled parking permit. Application for this permit must be made each semester and a new parking permit obtained by the first day of class each semester.

Section 608: Medical Parking Permits—Persons who are not disabled, but have medical problems that would require special parking, may apply for a medical parking permit at the Special Services department of Saddleback College. Applications or renewal of these permits must be supported by a statement of the physician indicating probable time of the medical problem. Upon the approval of such an application by the Special Services department of Saddleback College, Special Services will issue the medical parking permit. This medical parking permit allows parking in areas posted “Staff Parking by Permit.” Application for this permit must be made each semester and a new parking permit obtained by the first day of class each semester. These permits are not valid in metered areas.

Section 609: Parking Permits—Every vehicle which occupies a space designated for an automobile, motorcycle or motor scooter must display a valid permit during posted hours of control.

For students who have a convertible or open top jeep vehicle, go to Campus Safety and your vehicle will be recorded on our “auto soft top” list. You must purchase a valid parking permit, but will not be required to display your permit when the top is down. Permits must be available if requested by an officer.

Section 611: Permit Issuance—There is a charge for parking permits. Applications for permits are available in the Department of Campus Safety and Security at Saddleback College, or in the Office of Student Services at Irvine Valley College. Permits will be issued upon receipt of a completed parking application and the appropriate fee by the Department of Campus Safety and Security at Saddleback College or the Office of Student Services at Irvine Valley College. Parking fees are subject to change.

Article VII—Schedule of Parking Fees

1. Student vehicles:
   (a) Automobiles
      (1) $20/Fall Semester
      (2) $20/Spring Semester
      (3) $10/Summer Session
      $40/Annual—Only available for purchase during the Fall semester. If a student plans to enroll for the Fall and Spring semesters and for the Summer session within the same academic year, the student may elect to purchase an annual parking permit. Annual parking permits are valid throughout the academic year.
   (b) Motorcycles
      (1) $10/Fall Semester
      (2) $10/Spring Semester
      (3) $5/Summer Session
      (4) $1/with current auto permit
      $20/Annual—Only available for purchase during the Fall semester. An annual parking permit for motorcycles may also be purchased during the Fall semester for each academic year. The annual parking permit is valid throughout the academic year.
   (c) Short-term Parking— all motor vehicles
      $1.00/Day Permits can be purchased at the Daily Parking Permit dispenser machines located in lots 1, 5A, 10 and 13.
Saddleback College opened its doors in the fall of 1968. More than 30 years later approximately 24,000 students, faculty, staff and administrators are on the campus from early morning until late evening and on weekends. It is the responsibility of each person in the college community to keep the campus in good condition and to maintain an attractive and clean environment that everyone can take pride in and enjoy. To this end, the College Beautification Committee has launched a Campus Pride Campus Wide campaign, which has as its goals:

**SMOKE RESPONSIBLY**
- No smoking within 5 feet of any building entrance or in overhangs where smoke may enter instructional areas (SOCCCD Board Policy 4014 and CA Code Sections 19994.30-19994.35).
- If you smoke, please place your cigarette butts in the proper place.

**RECYCLE, DON’T LITTER**
- Please put trash in the nearest trash bin.
- Recycle plastic and glass bottles in designated PEPSI recycling container (aluminum cans are okay).

**PARTICIPATE**
- Get involved in college-wide activity aimed at keeping our campus clean.
Academic Regulations

Grading Policy
In Sections 55750 to 55765 of the California Code of Regulations (Title 5), the Board of Governors of the California Community Colleges mandates a grading policy for all California Community Colleges. In compliance with this mandate, the South Orange County Community College District Board of Trustees has established the following provisions under Board Policy 5300 entitled “Grading Policy.”

Academic Record Symbols and Grade Point Average (GPA)

<table>
<thead>
<tr>
<th>Evaluative Symbol</th>
<th>Meaning</th>
<th>Grade Point Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Passing, less than satisfactory</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td>0</td>
</tr>
<tr>
<td>CR</td>
<td>Credit (equivalent to A, B or C; units earned but not counted in GPA)</td>
<td></td>
</tr>
<tr>
<td>NC</td>
<td>No Credit (equivalent to D or F; however, no units earned and units not counted in GPA)</td>
<td></td>
</tr>
</tbody>
</table>

Non-Evaluative Symbol
I Incomplete academic work for unforeseeable and justifiable reasons at the end of the term may result in an “I” symbol being entered in the student’s record. The condition for removal of the “I” and the grade to be assigned in lieu of its removal is stated by the instructor in a written record at the conclusion of the class. A copy of the record is given to the student and the original is filed in the Admissions and Records Office. A final grade is assigned when the work stipulated has been completed and evaluated or when the time limit for completing the work has passed. The “I” may be made up no later than one year following the end of the term in which it was assigned. A student may petition for an extension of time due to unusual circumstances before the time limit has passed. Petitions for this purpose are available in the Office Admissions and Records.

The “I” grade is not used in calculating the grade point average but excessive “I’s” are used as a factor in progress probation and dismissal procedures.

W Withdrawal from class or classes shall be authorized through 65% of a term. The academic record of a student who remains in a class beyond 65% of a term must reflect the symbol as authorized in this section, other than a “W.”

No notation (“W” or other) shall be made on the academic record of a student who withdraws during the first four weeks of a term.

Withdrawal between the end of the fourth week and 65% of a term, shall be recorded as a “W” on the student’s record.

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

A student may request permission to withdraw from a class after 65% of the length of the class by following the petition procedure in the Office of Admissions and Records. All requests for this exception shall include complete written details of the circumstances and only extreme emergency reasons clearly beyond the control of the student shall be considered.

MW The “MW” symbol shall be used for students who are members of an active or reserve military service and receive orders compelling a withdrawal from courses. Upon verification of such orders, this symbol may be assigned at anytime during the term with no adverse impact on the student’s academic record or enrollment status. This grading option is retroactive to January 1, 1990.

IP The “IP” symbol is used to denote that the class extends beyond the normal end of an academic term. It indicates that work is “in progress,” and that assignment of a substantive grade must await its completion. The appropriate evaluative grade and unit credit appear on the student’s record for the term in which the course is completed. The “IP” is not used in calculating the grade point average.

Credit/No Credit

Students have the option to be evaluated on a Credit/No-Credit grading basis except in courses restricted from use of these evaluative symbols and so designated in the college catalog. Students must declare the Credit/No-Credit option within the first 30 percent of the class by means of a signed Credit/No-Credit form submitted to the Office of Admissions and Records by the student. Nursing courses may not be taken for Credit/No-Credit grade unless no other grading option is available.

Certain courses may be evaluated only on a Credit/No-Credit grading basis. Such courses will be so designated in the college catalog and clearly indicated in the Schedule of Classes.

A “Credit” (CR) grade indicates satisfactory (“C” or better) work in the class and units awarded with such a grade. No grade points are assigned, however, and the grade is not used to compute the grade point average.

A “No Credit” (NC) grade indicates less than satisfactory work (“D” or “F”) and with such a grade, no units are earned nor is the grade used to compute the grade point average.

Note: In lieu of the traditional letter grade, the “CR/NC” option is offered so that students may explore subject areas of interest outside of their major areas of competence or known abilities without being overly concerned by a grade or jeopardizing their grade point average. There are a number of factors to consider before making the decision to opt for completion of a course on a Credit/No-Credit basis especially for transfer students:

— Taking a course on a Credit/No-Credit basis is not similar to auditing. Students are held to attendance regulations and must complete all examinations and required course work.

— Some colleges and universities specify that courses required for a major or general education be completed on a graded (A–F) basis.

— Students transferring to a UC campus who are required to complete 60 units of course work with a grade point average of 2.4 prior to admission must complete at least 42 of the required units on a graded (A–F) basis. Courses to remedy a University of California admissions deficiency are not acceptable if completed on a “credit” basis.

— Students planning to apply to competitive admissions programs should complete specifically required courses on a graded basis.

— “No Credit” (NC) grades are considered by the South Orange County Community College District in determination of progress probation (refer to regulations describing probation/dismissal under scholarship standards).
Academic Honors At Graduation

In recognition of academic excellence, students are awarded graduation honors as follows:

<table>
<thead>
<tr>
<th>Honor</th>
<th>GPA</th>
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</thead>
<tbody>
<tr>
<td>Summa Cum Laude</td>
<td>4.0 GPA</td>
</tr>
<tr>
<td>Magna Cum Laude</td>
<td>3.75 to 3.99 GPA</td>
</tr>
<tr>
<td>Cum Laude</td>
<td>3.50 to 3.74 GPA</td>
</tr>
</tbody>
</table>

In order to qualify, students must have completed at least 24 units of letter-graded coursework at Saddleback College.

Probation

Academic Probation

A student who has attempted at least 12 semester units at Saddleback College is placed on academic probation when the student's cumulative grade point average in all units attempted is less than 2.0.

Progress Probation

A student who has enrolled in at least 12 semester units at Saddleback College is placed on progress probation when the percentage of all units in which he/she has enrolled and for which entries of “W,” “I,” and “NC” are recorded reaches or exceeds 50 percent.

It is the responsibility of the student who has been placed on academic or progress probation to confer with a counselor regarding the probationary status and/or to use the services provided by the college including basic-skills courses, tutoring services, and faculty conferences. The college reserves the right to require counseling and regulation of the student’s program on the basis of his/her achievement.

Removal From Probation

Academic Probation

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

Progress Probation

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

Dismissal

A student whose cumulative grade point average falls below 1.75 in three consecutive semesters shall be subject to dismissal.

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 for which entries of “W,” “I,” and “NC” are recorded in three consecutive semesters reaches or exceeds 50 percent.

A combination of low scholarship and continued progress probation for three consecutive semesters also may result in dismissal.

Veterans Dismissal

Saddleback College enforces a policy relative to standards of conduct and progress expected by the Department of Veterans Affairs. The Veterans’ Office is required to notify the Department of Veterans Affairs (DVA) of veterans and/or eligible dependents who complete two consecutive semesters on academic or lack-of-progress probation. The DVA may terminate benefits, unless it can be shown that the student is pursuing an appropriate objective and has a reasonable chance for success in the chosen program. Please check with the Veterans’ Office for details.

Readmission After Dismissal

Students who have been dismissed from Saddleback College may apply for readmission after one semester of non-attendance by following the petition procedure in the Office of Admissions and Records. Students who are readmitted and fail to maintain a grade point average of 1.75 or higher during the semester following readmission shall be subject to permanent dismissal.

If circumstances warrant, exceptions may be made by recommendation of a special committee appointed to review such cases and by approval of the college president.

Academic Renewal

Under certain circumstances, students may elect to have previously completed courses disregarded in the computation of their cumulative grade point average (GPA). This process is known as academic renewal, defined in accordance with Title 5, California Code of Regulations, Sections 55763, 55765. Various restrictions apply, including the following:

1. A petition must be filed in the Office of Admissions and Records.
2. Accompanying the petition must be evidence that (a) previous work in question was substandard (less than C or the equivalent), and (b) the previous substandard work does not reflect the student’s current performance or capabilities.
3. Previous substandard work will be disregarded only by the term, not by the individual course—that is, all courses completed in a given term will be disregarded, including those for which the student received a passing grade.
4. No more than two semesters or three quarters of full-time work or 30 units of part-time work may be disregarded.
5. Only work completed three years or more before the date of petition may qualify for academic renewal.
6. The student must have completed a minimum of 30 semester units in the South Orange County Community College District with a 2.50 GPA subsequent to the substandard work in question.
7. When coursework is disregarded in the computation of the cumulative GPA, the student’s academic record will be annotated; all coursework remains legible, ensuring a true and complete academic history.
8. Academic renewal by the South Orange County Community College District does not guarantee that other institutions will approve such action. This determination will be made by the respective transfer institutions.

9. A student may request academic renewal only once.

**Load Limit**

Students will be allowed to carry a maximum of 19 units, not including work experience or independent study. In order for a student to be considered for an overload, he/she must have a cumulative 3.0 grade point average and must petition the Counseling Office at least two calendar weeks prior to the first day of registration. Petitions are available in the Counseling Office.

Saddleback College does not specify a minimum load except when the student must meet certain eligibility requirements such as financial aid, student employment, Social Security certification, Veteran's enrollment certification, insurance eligibility or athletic eligibility. Eligibility for Veteran's benefits requires enrollment in the required units for each week of the certification period. The load requirement is as follows:

- **Full-time** ------------------------- 12 or more units
- **Three-fourth time** -------------- 9 - 11.5 units
- **One-half time** ------------------ 6 - 8.5 units

An average of 15-16 units each semester is necessary for a student to graduate within a two-year period.

**Access to Records and Release of Information**

The congressional legislation entitled The Family Educational Rights and Privacy Act is designed to protect the privacy of student information.

In compliance with this law, the college provides students access to specified official records directly related to the student and an opportunity to challenge such records on the grounds that they are inaccurate, misleading, or otherwise inappropriate, while providing for the challenge of the actual grade received.

The college will not release, except by subpoena from state, local, and federal government officials, personally identifiable data about students without their prior written permission. The following directory items are exceptions to this policy.

Saddleback College regards as public information the facts concerning whether a person is currently enrolled, whether the person has received degrees and awards from the college, and if so, what degrees and awards unless the student notifies the Dean of Admissions and Records of his/her desire not to have the information released.

Students wishing to challenge information in their files should contact the Vice President for Student Services, who will cause a hearing to be held.

A standard fee has been established to cover the cost of furnishing copies of some college records to the student. Students wishing to have a copy of other records will be furnished copies at the actual reproduction cost except when copies of transcripts of coursework completed at other institutions must be obtained from those institutions.

The act applies to educational records only and does not include administrative records.

**Attendance**

Students are expected to attend classes regularly. Failure to attend classes may be taken into consideration by instructors in assigning grades.

Students who fail to attend the first meeting of any class for which they have officially enrolled may be dropped by the instructor unless prior arrangement has been made with the instructor.

Students who officially enroll in a class and never attend may be dropped by the instructor no later than the completion of 65% of the class.

Instructors may drop a student from a class when he/she is absent for a total of six cumulative instructional hours.

It is the student's responsibility to drop classes he/she is no longer attending.

**Final Examinations**

Final examinations of at least two hours are held in all subjects according to the schedule that is published by the Vice President for Instruction each semester. No student will be excused from any final examination without approval from the Vice President for Instruction.
Honors Program

Philosophy and Rationale

Saddleback College seeks to serve a broad range of student needs, abilities and interests. The rationale for an Honors Program is thus firmly rooted in the commitment of the College to provide high quality educational opportunities to students at all levels, including those students who have demonstrated or show promise of high academic achievement.

Characteristics

The Honors Program consists of enriched coursework specifically designed to develop exceptional talent and ability in highly motivated students. Honors courses provide greater flexibility in format and instructional methodologies through close interaction with Honors Program faculty and mentors.

The Honors Curriculum

The Honors Program offers a variety of courses to meet both academic and occupational needs. Honors students are required to complete a minimum of 15 units of Honors courses, including three CORE courses and special Honors SECTIONS. Honors students are individually guided in putting together a selection of courses that suits their particular needs and satisfies the requirements of the Honors Board.

CORE courses: ENG 1A (Principles of Composition I) OR ENG 1B (Principles of Composition II) 3 units each (Honors Sections)
HUM 10 A (Culture, Science, and Society I)
HUM 10 B (Culture, Science, and Society II)
3 units each. Team-taught courses involving two or more instructors from a diversity of disciplines. The topic/theme of the courses changes yearly.

In addition to the CORE courses required of all Honors students, two (or more) courses (six units) must be chosen from Honors course offerings. Successful completion of the program will result in a certificate of completion, a special Honors designation on the transcript, and special recognition at commencement. Honors courses are specified as such on all Saddleback College transcripts whether or not a student completes the entire program. The program has the following offering in its growing portfolio as of February 2002. Check the schedule of classes for availability of courses designated as “Honors” in any given semester:

- ANTH 1 (Physical Anthropology)
- ANTH 2 (Cultural Anthropology)
- ART 20 (Art Appreciation)
- ASTR 20 (General Astronomy)
- BIO 20 (Introduction to Biology)
- BUS 1 (Introduction to Business)
- BUS 14 (Legal Environment of Business)
- BUS 135 (Elements of Marketing)
- ECON 4 (Principles -Micro)
- ENG 4 (Fiction Fundamentals)
- ENG 21A (World Literature-Ancient to 17th Century)
- ENG 25 (Introduction to Literature)
- ENG 27A (Introduction to the Novel)
- FN 50 (Fundamentals of Nutrition)
- GEOL 20 (Introduction to Earth Science)
- HIST 4 (World History to 1750)
- HIST 11 (Perspectives of Peace Studies)
- HIST 16 (History of the United States to 1876)
- HIST 17 (History of the United States from 1877)
- HIST 19 (United States Since 1945)
- HIST 25 (History of American West)
- HIST 32 (California History)
- HIST 130 (The Dead Sea Scrolls)
- MATH 10 (Introduction to Statistics)
- MS 20 (Introduction to Oceanography)

PS 1 (American Government)
PS 10 (Introduction to Political Theory)
PSYC 1 (Introduction to Psychology)
SPSW 1 (Math/Science/Engineering Workshop)

Activities

The Honors student participates in a variety of activities, which include special cultural events and field trips, independent study projects, colloquia, opportunities for social interaction with Honors Program faculty on a regular basis, and special events at some four-year colleges and universities.

Enhanced Transfer Opportunities

Students who complete the Honors Program in good standing are eligible for priority or guaranteed admission to certain four-year colleges and universities. As of February 2002 transfer agreements exist with California State Fullerton, Chapman University, Occidental College, Pitzer College, Pomona College, San Diego State University, University of California Irvine, University of California Los Angeles, University of California Riverside, University of California Santa Cruz, and Whitman College. Agreements vary by school; some include scholarships.

Requirements for Admission to the Program

1. For entering freshmen, an overall minimum GPA of 3.25 in all high school work or in college work; for continuing students who have completed at least 12 units of college-level courses, a GPA of 3.25 in college work.
2. Completed Honors Program application.
3. Two letters of recommendation.
4. Copies of transcripts of previous academic work. Unofficial copies will be accepted. Entering freshmen submit high school transcripts; continuing college students submit college transcripts.
5. All applicants must be English 1A-eligible.

Students who do not meet the GPA-minimum criterion yet still feel they belong in the program are welcome to apply. All applications are evaluated on an individual basis by the Honors Board.

Requirements for Admission to a Single Honors Course:

1. Minimum GPA of 3.25 or instructor permission.
2. Completed student information sheet.

Students need not be program members to take Honors courses; students may register for an Honors course during regular registration and complete an application during the first week of class. Each Honors course taken is recorded as such on transcripts, whether or not a student completes the program.

Requirements for Program Completion:

1. Complete a minimum of five Honors Program courses (minimum of 15 units), including the Core courses.
2. Maintain a minimum GPA of 3.25 in all Honors courses and a minimum overall GPA of 3.25.

For further information, please visit the Honors Program page at the Saddleback College Web site: www.saddleback.edu/div/hon, e-mail: honors@saddleback.edu, or contact Professor Carolyn Kuykendall, Honors Board Chair 949-582-4863.
Assessment of Experiential Learning

Following guidelines developed nationally by the Council of Advancement of Experiential Learning, a formalized program is available for the assessment of experiential learning and Assessment of Prior Learning (APL). The object of the program is to develop guidelines for awarding course credit on the basis of documentation of competencies gained through prior life experience. Persons who have attained extensive college-level knowledge and now wish to translate their knowledge into coursework equivalencies applicable toward a degree enroll in Applied Psychology 141 for instruction in the development of a portfolio of life learning to be submitted for faculty assessment.

Policies and guidelines for awarding APL credit are as follows:

1. All students enrolling in the Assessment of Prior Learning (APL) portfolio development course will be required to complete the matriculation process.

2. Following an evaluation of relevant portfolio sections by the appropriate faculty member designated by the department chair or dean, credit may be recommended to the APL Review Committee. All faculty evaluations shall be signed off by a department chair or dean.

3. APL units should be awarded only for courses in the printed college catalog. However, students may include documentation in the APL portfolio requesting consideration by the APL Review Committee for units of elective credit.

4. APL units may not be offered for basic skills courses (English, mathematics, and reading).

5. A maximum of 30 units earned through APL may be applied to the Associate Degree, except that an APL cap on units earned in a discipline may be established by a department.

6. APL units should be awarded on a credit/no credit grade basis only.

7. APL units shall not be applied toward the 12-unit residency requirement for the Associate Degree, and/or the Occupational Certificates, nor shall units earned through APL be posted on the student’s transcript until a 12-unit college district residency requirement has been met.

Completion of an APL portfolio does not guarantee award of credit. It is advised that students pursuing Assessment for Prior Learning credit check first with the appropriate division. Further information may be obtained in the Counseling Office.

Note: Students must complete 12 semester units at Irvine Valley College if credit by examination for Administration of Justice (AOJ) courses are used to meet Administration of Justice Degree or Certificate requirements or used for employment credit. If an Administration of Justice Degree or Certificate or employment credit is not sought, then credit awarded will not be posted to the transcript until 12 semester units have been completed in the South Orange County Community College District.

Credit by Examination—Specific Course Credit

A student may qualify for credit by examination for courses in the current Saddleback College catalog for which he/she appears to be reasonably qualified by training or experience, and for which he/she has not received previous high school or college credit, attempted credit by examination or ever enrolled. However, the course in which the student seeks credit by examination should be one in which the course content can be tested by examination in the opinion of the department and of the instructor assigned. A student may not receive credit by examination for any course which is prerequisite to one for which credit has been received. Inasmuch as a minimum 2.0 grade point average in at least 12 units completed at Saddleback College is required to enroll in credit by examination, units earned through credit by examination shall not be counted in determining the 12 semester-unit minimum required in residence for graduation.

The procedures for securing permission to obtain Credit by Examination for a course are as follows:

1. The student obtains a Credit by Examination petition form from the Office of Admissions and Records. Eligibility will be determined by the Office of the Director of Admissions, Records and Enrollment Services.

2. The student contacts an instructor who teaches the course for which Credit by Examination is requested. If it is the judgment of the instructor that the course content can be tested by examination, and that the student possesses sufficient background, previous training and/or skills to attempt the examination, the instructor signs the form.

3. The student following policies and procedures developed within the department obtains the signature of the appropriate division dean.

4. Following division endorsement, the request is forwarded to the Vice President for Instruction for signature.

5. The initiating instructor prepares, administers and grades the examination.

6. A grade of Credit (CR) or No Credit (NCR) will be assigned and the course will be identified as “Credit by Examination” on the transcript.

Note: Students should be aware that some universities will not recognize credit through course completion, or through credit by examination, for languages other than English in which they have received formal schooling in that language.
Alternative Credit Options

Advanced Placement Examination Program
Saddleback College will grant credit for each Advanced Placement (AP) Examination satisfactorily passed with a score of 3, 4, or 5. Students can obtain an Advanced Placement Examination Credit Petition in the Counseling Office. Completion of one semester at Saddleback College is required. The Saddleback College transcript will show the exam credit applicable to the AA/AS degree.

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<thead>
<tr>
<th>Exam</th>
<th>AA/AS GE</th>
<th>CSU GE</th>
<th>IGETC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>5 units of elective credit and completion of the Fine Arts requirement</td>
<td>3 units credit in Area C1</td>
<td>No course credit established</td>
</tr>
<tr>
<td>Art Studio</td>
<td>5 units of elective Art Studio credit for either Drawing or General Portfolio [5-unit maximum credit for both exams]</td>
<td>No course credit established</td>
<td>No course credit established</td>
</tr>
<tr>
<td>Biology</td>
<td>Credit for BIO 20</td>
<td>3 units credit in Area B2</td>
<td>Credit for BIO 20</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Credit for CHEM 3</td>
<td>6 units credit in and completion of Areas B1 and B3</td>
<td>Credit for CHEM 3</td>
</tr>
<tr>
<td>Computer Science – AB Exam Only</td>
<td>Credit for CS 1A with a score of 3. Credit for CS 1B with a score of 4 or 5.</td>
<td>No course credit established</td>
<td>No course credit established</td>
</tr>
<tr>
<td>Economics – Macro Exam</td>
<td>Credit for ECON 20 with a score of 3 or 4. Credit for ECON 2 with a score of 5.</td>
<td>3 units credit in Area D2</td>
<td>3 units credit in Area 4 with a score of 3 or 4. Credit for ECON 2 with a score of 5.</td>
</tr>
<tr>
<td>Economics – Micro Exam</td>
<td>Credit for ECON 20 with a score of 3 or 4. Credit for ECON 4 with a score of 5.</td>
<td>3 units credit in Area D2</td>
<td>3 units credit in Area 4 with a score of 3 or 4. Credit for ECON 4 with a score of 5.</td>
</tr>
<tr>
<td>English – Language and Composition</td>
<td>Credit for ENG 200 and 2 units of elective credit with a score of 3. Matriculation Placement in ENG 1A and 2 elective units with a score of 4 or 5.</td>
<td>3 units credit in and completion of Area A2.</td>
<td>Completion of Area 1A with a score of 4 or 5. [5-units maximum credit for both English exams].</td>
</tr>
<tr>
<td>English – Literature and Composition</td>
<td>Credit for ENG 200 and 2 units of elective credit with a score of 3. Matriculation Placement in ENG 1A and 2 elective units with a score of 4 or 5. Matriculation Placement in ENG 1B.</td>
<td>3 units credit in and completion of Area A2 and 3 units credit in Area C2.</td>
<td>Completion of Area 1A with a score of 4 or 5. [5-units maximum credit for both English exams].</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>3 units of elective credit</td>
<td>No course credit established</td>
<td>No course credit established</td>
</tr>
<tr>
<td>Government and Politics – United States</td>
<td>3 units of elective credit</td>
<td>3 units credit in Area D8 and completion of the national government portion of the American Institutions requirement.</td>
<td>No course credit established</td>
</tr>
<tr>
<td>Government and Politics-Comparative</td>
<td>3 units of elective credit in Social Sciences with a score of 3 or 4. Credit for PS 12 with a score of 5.</td>
<td>3 units credit in Area D8</td>
<td>3 units credit in Area 4 with a score of 5</td>
</tr>
<tr>
<td>History – United States</td>
<td>5 units of elective credit with a score of 3. HIST 22 and 2 elective credits with a score of 4 or 5.</td>
<td>3 units credit in Area D6 and completion of the US History portion of the American Institutions requirement.</td>
<td>3 units credit in Area 4 with a score of 4 or 5</td>
</tr>
<tr>
<td>History – European</td>
<td>5 units of elective credit with a score of 3. Credit for History 5 and 2 elective credits with a score of 4 or 5.</td>
<td>3 units credit in Area D6</td>
<td>3 units credit in Area 3 with a score of 4 or 5</td>
</tr>
<tr>
<td>Language Other Than English</td>
<td>Credit for language course 3 with a score of 3 or 4. Credit for language course 4 with a score of 5.</td>
<td>6 units credit in Area C2</td>
<td>5 units of Humanities credit in Area 3</td>
</tr>
<tr>
<td>Literature in a Foreign Language</td>
<td>5 units of elective credit in Humanities</td>
<td>6 units credit in Area C2</td>
<td>No course credit established</td>
</tr>
</tbody>
</table>
Subject matter determines equivalency to specific courses.

Note: Elective credit will be given for AP test scores in other areas not listed above unless Saddleback College divisions offering the subject matter determine equivalency to specific courses.

**California Registered Nurse License**

Holders of current Registered Nursing Licenses completing the graduation requirements described in the Nursing Program will be given full credit for the nursing major. Refer to occupational programs section of this catalog for details.

**Military Service Credit**

Six semester units of general elective credit toward the Associate Degree will be awarded for a minimum of one year of active honorable service. In the first semester of attendance, veterans who are collecting V.A. educational benefits must submit their DD-214 to the Veterans Affairs Office to be evaluated for these credits. Other veterans who are not collecting V.A. educational benefits, will be evaluated by the Office of Admissions and Records.

In addition, credit will be awarded for work completed successfully in military service schools, not to exceed 15 semester units, according to the recommendations of the American Council on Education as stipulated in the Guide to the Evaluation of Educational Experiences in the Armed Services. Military Service credit will be evaluated only upon completion of 12 units in residence and application for an evaluation for an associate degree. Military evaluation forms may be obtained from the Office of Admissions and Records.

Military service credit may not necessarily apply toward minimum admissions requirements for other colleges or universities. Credit is generally given only after the student is fully matriculated and enrolled at the university upon submission of Form DD-214 or DD-295.

### 2+2 Articulation: High School/Regional Occupational Program

Saddleback College maintains faculty-approved formal course and program “2+2” high school articulation agreements with Capistrano Unified School District, Saddleback Valley Unified School District, Capistrano-Laguna Beach Regional Occupational Program, and Coastline Regional Occupational Program. Fourteen disciplines have been articulated: accounting, architecture, automotive technology, business management, fashion, computers, construction technology, drafting, early childhood education, electronic technology, graphic communications, horticulture, and interior design.
These agreements permit students to earn a Saddleback College-“2+2” Articulation Certificate and receive advanced placement and/or college credit for selected high school or Regional Occupational Program (ROP) coursework completed with a grade of “B” or better. Advanced placement allows students to waive an introductory college course. After completing at least 12 units of coursework at Saddleback College with a 2.0 GPA, students should make a counseling appointment for verification and approval of their high school “2+2” Articulation Certificate and for assistance in completing the “2+2” Credit Petition form. The Office of Admissions and Records will process and post “2+2” course credit to their transcript once verified and approved by a Saddleback College counselor or the “2+2” Articulation Coordinator. Contact the Counseling Services office for further information.

Contract Education

Contract education provides an option for a student whose special needs preclude regular enrollment and attendance in courses outlined in the catalog or when it becomes necessary to meet particular curricular needs of one or more students. The student, an instructor and the appropriate dean prepare a learning contract whereby the learning content will be specified as well as the methodology of study and means and criteria for evaluation. The kinds of contract education are the following:

**Independent Study—Regular Course**

A student may, because of special circumstances, petition to take a course listed in this catalog on an individual independent study basis. A petition must be approved by the instructor who will supervise the contract study as well as by the division dean and Vice President for Instruction. Petitions for independent study are available in division offices. Completed petitions shall be filed no later than the tenth day of classes in the Office of Admissions and Records to complete enrollment.

**Independent Study—Individual Project**

A student may pursue advanced study after completing the courses offered in a particular field. Students, in cooperation with the instructor and the division dean, prepare and execute a petition for contract education that includes a written academic contract outlining a description of the project or study; specific student objectives and responsibilities; and instructor responsibilities for conference and evaluation of the individual learning project. The independent study petition (petition for contract education) is available in division offices. Completed petitions shall be filed no later than the tenth day of classes in the Office of Admissions and Records to complete enrollment. In unusual cases, enrolled students may add an independent study beyond the tenth day of instruction with the written approval from the Vice President for Instruction.

**Special Studies Workshops**

Special Studies Workshops may be requested by groups of students who wish to pursue advanced study with an instructor after completing an introductory offering; for non-traditional educational experiences where regular course offerings are not available; for non-department interdisciplinary study; to experiment with pilot courses; or to meet particular community education needs. A learning contract between the instructor and a group of students is entered into whereby the contracted hours and areas of study are clearly delineated as well as the means by which students will master the subject matter and be evaluated. Special Studies Workshops require the approval of the appropriate division dean and the Vice President for Instruction. Approval is dependent upon adherence to district policy on minimal class size as well as conformity to established standards of academic rigor. Independent Study/Special Study Workshop forms are available only in the division office and shall be filed no later than the tenth day of classes in the Office of Admissions and Records to complete enrollment.

**Cooperative Work Experience**

A well-directed Cooperative Work Experience or “internship” program with measurable objectives and results is a method of education that combines work experience gained by students on the job with regular academic instruction. It is a unique plan of education designed to develop skills and knowledge as well as to improve self-understanding by integrating classroom study with planned and supervised experience outside of the formal classroom environment. Cooperative Work Experience credit is available when stipulated in the catalog as a requirement for completion of an Occupational Certificate Program or by petition to a faculty member within the department of the student’s major. Applications are available in the Division of Technology and Applied Science office.
Other College Programs

Emeritus Institute

The Emeritus Institute is a dynamic and comprehensive academic program designed to provide courses which will be of interest and value to persons of all ages, particularly the midlife and older adult. This program is open and flexible, allowing an individual to select any courses that they wish for lifelong learning challenges or in preparation for a second career. The Emeritus Institute offers courses in 30 off-campus locations, convenient to the older adults of the Saddleback College community.

The Emeritus Institute courses are offered in two modes:

1. **Credit courses:** These courses are included in the 200 numbering series. The courses are listed in the Saddleback College Schedule of Classes each semester under the heading of Emeritus Institute. These courses are designed to meet the academic and critical thinking challenges of each discipline. Disciplines include Accounting, Art Appreciation, Astronomy, Computers, Creative Writing, English Literature, Foreign Language, History, Health, Political Science, and Theatre. Credit courses offered in the Emeritus Institute are applicable to the General Studies degree, Option II.

2. **Non-credit courses:** These courses are designated with 0 credit. No grades are given. These courses are dynamic activity courses in which older adults acquire knowledge and skills related to specific disciplines, including Accounting, Art, Clothing and Textiles, Life Development, Music, Photography, and Physical Education.

For further information regarding the Emeritus Institute program call 949-582-4835, 582-4836, or 770-9669.

Community Education

Community Education offers a comprehensive program of short-term, fee-based, not-for-credit seminars and workshops for both children and adults.

The Community Education brochure “Spectrum” is mailed three times per year. The “Spectrum” details all class offerings and special events. For further information regarding Community Education, call 949-582-4646 or access our Web site at http://www.saddleback-ce.com.

Study-Abroad Programs

Saddleback College offers study-abroad opportunities for students seeking college-credit learning experiences in other nations. In recent years semester programs were scheduled in Oxford, England; Florence, Italy; and Salamanca, Spain. Summer programs were taught in China, England, France, Greece, and Spain. A London Theatre program is often scheduled for spring vacation.

Students may also participate in Irvine Valley College study-abroad classes in Costa Rica, Thailand, and South America.

For more information and brochures contact division offices or the Office of Instruction at 949-582-4795.
Graduation Requirements

Associate in Arts Degree

Upon completion of the following requirements, the South Orange County Community College District Board of Trustees will confer the Associate in Arts degree.

I. Unit Requirement: Units of Course Credit — minimum 60 units.

II. Scholarship Requirements: A minimum grade-point average of 2.0 in all units attempted at Saddleback College and an overall grade-point average of 2.0 for all units attempted.

III. Residence Requirement: Of the 60 semester units required, at least 12 units must be completed in residence at Saddleback College.

IV. General Education Requirement: Complete the requirements stated below under “Associate Degree General Education Requirement.”

V. Major Requirement (satisfy one):
   1. Complete an Associate degree program as described in the Saddleback College catalog.
   2. Complete at least 20 units in a single subject or related disciplines.
   3. Complete at least 39 units approved to meet the general education pattern of the California State University system or the Intersegmental General Education Transfer Curriculum (IGETC) requirements.
   4. Complete at least 20 units, including the lower-division requirements designated as preparation for a specific transfer major.

Associate in Science Degree

Upon completion of the following requirements, the South Orange County Community College District Board of Trustees will confer the Associate in Science degree.

I. Unit Requirement: Units of Course Credit — minimum 60 units.

II. Scholarship Requirements: A minimum grade-point average of 2.0 in all units attempted at Saddleback College and an overall grade-point average of 2.0 for all units attempted.

III. Residence Requirement: Of the 60 semester units required, at least 12 units must be completed in residence at Saddleback College.

IV. General Education Requirement: Complete the requirements stated below under “Associate Degree General Education Requirement.”

V. Major Requirement (satisfy one):
   1. Complete an Associate degree program in one of the natural sciences (Astronomy, Biology, Chemistry, Computer Science, Geology, Oceanography, or Physics) as described in the Saddleback College catalog.
   2. Complete the Associate degree program in Engineering as described in the Saddleback College catalog.
   3. Complete an occupational (certificate) program as described in the Saddleback College catalog.
   4. Complete an occupational (certificate) program at a regionally accredited institution.
3. 35-39 percentile on the Comprehension section of the Nelson-Denny Reading Test; Form H, or on an equivalent test. The Nelson-Denny Reading Test may be repeated once only, starting with the semester in which the student will have completed a minimum of 45 units.

4. COMPUTER COMPETENCY

Students should complete either option A or option B.

A. Completion with a grade of “C” or better of any of the courses that teach computer competency and develop computer awareness. Courses that currently meet this requirement are: CIM 1, 10, 112, 120, 174 or 174A and 174B, 227; CS 1A, 1B, 2B, 3A, 3B, 12, 14, 15, 18; EST 215; FASH 150, 260; GERO 101; GD 147; HORT 106; ID 115, 212; LIB 102; MA 260/HSC 260; N 176**; SL 102; SPS 350.

B. Successful completion of the computer competency portion of one of the above courses by exam, except those identified by asterisk**.

Breadth Requirements

Breadth requirements provide students with the knowledge they need:

— to understand and use modes of inquiry in the major disciplines (including the humanities, fine arts, natural and social sciences);
— to be aware of and appreciate the diversity of other cultures and times as well as American institutions and ideals;
— to develop the capacity for self understanding and the relationship between mind, body, and the environment.

1. FINE ARTS AND HUMANITIES

Those courses which study the cultural activities and the artistic expressions of human beings.

Group A. The Arts, Music, Theatre

One course from the following:

| ARCH 112 | CA 20*, 30 |
| FASH 144* | FA 27 |
| ID 110, 122, 125 |
| MUS 1, 20, 23*, 24, 25, 26, 27, 28, 29*, 90 |
| PHOT 25 |
| PE 64/TA 64 |
| SP 32/TA 32 |
| TA 20, 22, 25, 26, 110* |

Group B. Literature, Philosophy, History, Religion, and Foreign Language

One course from the following:

| CHI 1* (or 1A* and 1B*), 2*, 21* |
| FR 1 (or 1A and 1B), 2, 3, 4, 5, 20, 21 |
| GER 1 (or 1A and 1B), 2, 3, 4, 21 |
| HIST 4, 5 |
| HUM 1, 2, 3, 4, 10A, 10B, 21/IDS 1, HUM 22/IDS 2, HUM 25/IDS 5 |
| ITA 1 (or 1A and 1B), 2, 3, 4, 21 |
| JA 1*, 2*, 3*, 4*, 21* |
| KOR 21* |
| PHIL 1, 10*, 15 |
| SL 1, 2, 3, 4 |
| SPAN 1* (or 1A* and 1B*), 2*, 3*, 4*, 20A, 20B, 21A*, 21B* |
| TA 20, 22, 25, 26, 110* |

2. LIFE SKILLS/CRITICAL THINKING

Life skills is study to equip human beings for lifelong understanding and development of themselves as integrated physical, social, and psychological entities. Critical thinking courses develop the principles and applications of language toward logical thought and critical evaluation of communication.

(One course from Group A or Group B.)

Group A. Life Skills

| ACCT 120 |
| APSY 120, 140, 150, 151, 160 |
| BUS 116 |
| FCS 115, 140, 142 |
| FN 50, 64 |
| GERO 101 |
| HLTH 1, 3 |
| HS 175 |
| PSYC 33 |
| SPS 115, 205 |
| WS 120 |

Group B. Critical Thinking

| ENG 1B, 170 (both courses also apply to Option A under Reading Competency) |
| PHIL 12 |
| SP 2, 3 |
5. **PHYSICAL EDUCATION ASSESSMENT**

Non-activity courses that assess physical fitness and develop an awareness about appropriate exercise.

**One course from the following:**

PE 107 (This course is designed to meet the needs of disabled students.)

6. **CULTURAL DIVERSITY**

Courses fulfilling this requirement aim to provide students with a broad educational perspective by addressing such issues as the historical, cultural, sociological, and political aspects of one or more of the following: (a) cultures other than Western European; (b) one or more of the American minority groups, who, because of their physical or cultural characteristics, are singled out from others in the society for differential treatment. Courses fulfilling this requirement should therefore develop a sensitivity to and appreciation of cultural differences; improve cross-cultural understanding and communication; provide exposure to non-dominant views of the world and wider perspectives; and foster a deeper awareness of the interdependence of nations, people, and cultures in today's world.

**CULTURAL DIVERSITY REQUIREMENT:** All AA/AS degree candidates must make certain that one course taken in Fine Arts and Humanities, or in Natural Sciences, or in Social and Behavioral Sciences fulfills the Cultural Diversity Requirement. Courses that will satisfy this requirement are marked with an asterisk (*). A student may petition a faculty member who teaches a course meeting the Cultural Diversity Requirement for a waiver of the requirement based on documented life experience.

**Note:** A COURSE MAY BE USED TO SATISFY BOTH A GENERAL EDUCATION REQUIREMENT AND A MAJOR REQUIREMENT, EXCEPT THAT 20 UNITS MUST APPLY EXCLUSIVELY TO THE MAJOR.

Graduation requirements are subject to change. Students will be subject to graduation requirements in effect at the time of initial enrollment unless they opt for a subsequent catalog in effect during their enrollment within the South Orange County Community College District.

**Associate in Arts Degree—Transfer Option**

Students completing a minimum of 60 units including all requirements of either the California State University General Education Certification pattern or the Intersegmental General Education Transfer Curriculum (IGETC) will satisfy graduation requirements with a major in General Studies. Completion of either CSU General Education certification or IGETC may substitute for the Saddleback College core and general education requirements with an alternative major.

**Credit Transferred From Other Institutions**

The Board of Trustees of the South Orange County Community College District has mandated that full reciprocity shall exist for courses completed at either Irvine Valley College or Saddleback College. Saddleback College grants credit for college units earned at any regionally accredited institution of higher education. Course equivalencies are determined by the Office of Admissions and Records in accordance with the policies and requirements set forth in this catalog. It is the student’s responsibility to arrange to have transcripts sent to the Office of Admissions and Records and to apply for evaluations. No more than four units may be awarded for sectarian courses.

A student who has completed a Bachelor’s degree or higher at a regionally accredited college or university, or its equivalent as determined by an approved credentials evaluation service, has met the Saddleback College General Education requirements for the Associate degree; however, transcript evaluation must verify completion of a course conducted in English equivalent to English 1A with a grade of “C” or higher, as well as an equivalent to a course applicable to the American Institutions requirement.

**Certificate of Achievement**

The awarding of a Certificate of Achievement acknowledges to the recipient and the potential employer that all courses in an approved occupational program have been completed. The courses are chosen by the faculty on the basis of determination of educational experiences which lead to vocational competency.

Students with previous educational or vocational experience who wish to waive a course on the certificate list may be expected to verify equivalency through examination. Petitions for course waivers or substitutions are available in both the Office of Admissions and Records and the Counseling Office. When waivers and substitutions have been approved, a minimum of 18 units must be included in the certificate program. The Certificate of Achievement is issued upon the completion of the following:

1. The required courses in the certificate area.
2. A minimum of twelve (12) units in residence at Saddleback College. At least one course required in the certificate must be completed at Saddleback College.

It is the student’s responsibility to make a formal application for the Certificate of Achievement to the Office of Admissions and Records.

**Associate Degree Programs**

To complete either an Associate in Arts or Associate in Science degree program, select and complete the courses from certificate or recommended associate degree major patterns outlined in the following section of the catalog and refer to Graduation Requirements. Alternative associate degree majors with a minimum of 20 semester units may be planned by consulting a counselor. Petitions for special majors are available in the Counseling Office.

**Multiple Majors**

Within the units required for the associate degree it is possible for a student to complete the requirements for more than one major or certificate program, providing that minimum requirements are met for each major or certificate and that a minimum of 12 units applies exclusively to each program.

**Second Associate Degrees**

1. First degree completed elsewhere, other than at Saddleback College:

Students seeking an associate degree after having received a baccalaureate degree may qualify for graduation upon completion of a minimum of 12 units in residence and the requirements in the major field of study.

2. Students seeking an associate degree after having received an associate degree from another institution may qualify for graduation upon completion of the following:
   a. General education requirements for which equivalents have not been completed.
   b. The requirements in the major field.
   c. Residence and scholarship requirements.

3. Second Associate Degrees from Saddleback College

The student may qualify for an additional associate degree under the following circumstances:
   a. The second major is offered in a different field of study.
   b. At least 12 units are earned in residence after conferral of the first degree.
   c. All requirements of the major are fulfilled.
### Occupational Certificates and Degrees

<table>
<thead>
<tr>
<th>Certificate Type</th>
<th>C.C.</th>
<th>A.A.</th>
<th>A.S.</th>
<th>C.A.</th>
<th>Page</th>
</tr>
</thead>
<tbody>
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<td>Accounting</td>
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<tr>
<td>Accountant</td>
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<tr>
<td>Computerized Accounting Specialist</td>
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<td>Tax Preparation</td>
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<td>Administrative Assistant</td>
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<td>Anthropology</td>
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<td>Architectural Drafting</td>
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<td>Art</td>
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<td>Astronomy</td>
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<td>Automotive Technology</td>
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<td>Automotive Chassis Specialist</td>
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<td>Automotive Engine Service Specialist</td>
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<td>Automotive Tune-Up Specialist</td>
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<td>General Automotive Mechanics</td>
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<td>Business Administration</td>
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<td>Business and Commerce—General</td>
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<td>Business Management</td>
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<td>Business Leadership</td>
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<td>Infant/Toddler</td>
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<td>Computer and Information Management</td>
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<td>Applications Developer</td>
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<td>Business Systems Analyst</td>
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**C.A.: Certificate of Achievement - Vocational Program (18 units or more)**

**C.C.: Certificate of Completion- Vocational Program (6-17.9 Units)**

**A.A.: Associate in Arts Degree**

**A.S.: Associate in Science Degree**
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<td>A.A.: Associate in Arts Degree</td>
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<td>A.S.: Associate in Science Degree</td>
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There are three certificate programs available in accounting: Accountant, Computerized Accounting Specialist, and Tax Preparation. Accounting majors intending to transfer to a four-year college should refer to the Business Administration transfer curriculum.

**Accountant Certificate Program**

This program meets a substantial portion of the 45-unit requirement to take the California CPA exam. It is intended primarily for students possessing a bachelor's degree or foreign university equivalent. In addition, completion of this certificate is helpful in securing entry-level accounting positions in business and industry. CPA EXAM AND LICENSURE: Please contact the California Board of Accountancy.

**Course ID** | **Title** | **Units**
--- | --- | ---
ACCT 1A | Financial Accounting | 4
ACCT 1B* | Managerial Accounting | 4
ACCT 203* | Cost Accounting | 3
ACCT 110 | Business Finance | 3
ACCT 202A* | Intermediate Accounting I | 3
ACCT 202B* | Intermediate Accounting II | 3
ACCT 216* | Individual Income Tax | 4
ACCT 217* | Partnership and Corporate Taxation | 3
ACCT 275* | Auditing | 3
BUS 12 | Business Law | 3
or | or | 3
BUS 14 | Legal Environment of Business | 3

**Total** | **29-30**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.


**Computerized Accounting Specialist Certificate Program**

This program provides students who plan to enter the accounting field with knowledge of accounting principles and practices to record transactions for various types of businesses using a double-entry bookkeeping system, and to prepare and analyze financial statements using accounting software programs.

**Course ID** | **Title** | **Units**
--- | --- | ---
ACCT 1A | Financial Accounting | 4
ACCT 1B* | Managerial Accounting | 4
ACCT 204* | Computer Applications for Accounting | 3
CIM 222* | Computerized Accounting: QuickBooks | 1.5

**Total** | **18.5**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.


**Tax Preparation Certificate Program**

This program provides students with sufficient knowledge of Federal and State of California tax law to prepare individual and small business tax returns and to obtain an entry-level position as a tax preparer.

**Course ID** | **Title** | **Units**
--- | --- | ---
ACCT 1A | Financial Accounting | 4
ACCT 204* | Computer Applications for Accounting | 4
CIM 222* | Computerized Accounting: Quicken | 1.5
CIM 223* | Computerized Accounting: QuickBooks | 3
ACCT 216* | Individual Income Tax | 4
ACCT 217* | Partnership and Corporate Taxation | 3
BUS 12 | Business Law | 3
BUS 14 | Legal Environment of Business | 3
CIM 216*+ | Spreadsheets: Excel | 3

**Total** | **18.5**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.
**Administrative Assistant Certificate Program**

The Administrative Assistant program prepares individuals for employment in key staff positions or enhances existing skills of office assistants, office managers, and other professionals.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 102</td>
<td>Oral Business Techniques (meets AA Oral Communication requirement)</td>
<td>3</td>
</tr>
<tr>
<td>BUS 103</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>BUS 104*</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS 125</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>CIM 10</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIM 121C*</td>
<td>Keyboarding for Computers—Advanced</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 174+</td>
<td>Computer Operating Systems: Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIM 214*</td>
<td>Word Processing: Word</td>
<td>3</td>
</tr>
<tr>
<td>CIM 216*+</td>
<td>Spreadsheets: Excel</td>
<td>3</td>
</tr>
<tr>
<td>CIM 227*</td>
<td>Internet and Web Essentials</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Select from Specialty Courses listed below.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**Specialty Courses:**

- CIM 218*+ Database: Access 3
- CIM 222* Computerized Accounting: Quicken 1.5
- CIM 223* Computerized Accounting: QuickBooks 1.5
- CIM 228A*/B* Business Desktop Publishing—Beginning/Advanced 1.5, 1.5
- CIM 230* Desktop Presentations: PowerPoint 1.5
- CIM 272A*/B* Web Design for Business—Beginning/Advanced 1.5, 1.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

**Anthropology Associate Degree Program**

The Anthropology Associate Degree program is designed to provide the transfer Anthropology major the opportunity to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended for those considering professional careers related to anthropology, completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment.

Suggested major sequence for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1</td>
<td>Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 2</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3*</td>
<td>Culture and Language</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 9</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select three courses from Restricted Electives below.</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

**Restricted Electives:**

- ANTH 4 Native American Indian Culture 3
- ANTH 6 Culture Change 3
- ANTH 7 Indians of Southern California 3
- ANTH 8 World Prehistory 3
- ANTH 10 The World of the Celts 3
- ANTH 13 Magic, Witchcraft, and Religion 3
- ANTH 14 Culture Through Film 3
- ANTH 15 Primate Behavior 3
- ANTH 21 Women and Culture: Cross-Cultural Perspectives 3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: BUS 1, 12, 25, CIM 189, 289.

**Associate Degree**

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Refer to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. Consult with a counselor for assistance in planning a program.

RECOMMENDED ELECTIVES: BIO 11, 12; GEOL 2; HIST 20; MATH 10; PSYC 16; SOC 1.
Architectural Drafting Certificate Program

This occupational program is a two-year sequence of courses designed for students who wish to train for employment in architecture or a field related to the construction industry. Transfer students should refer to the Architecture Transfer program.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 110</td>
<td>Introduction to Architecture</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 124A</td>
<td>Architectural Drawing I</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 124B*</td>
<td>Architectural Drawing II</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 126</td>
<td>Materials and Methods of Construction</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 132*</td>
<td>Residential Planning Principles and Design</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 142*</td>
<td>Descriptive Drawing and Perspective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 112</td>
<td>History of Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 122</td>
<td>Architectural Practice</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 124C*</td>
<td>Architectural Drawing III</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 150*</td>
<td>Introduction to Computer-Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 151*</td>
<td>Computer-Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 152*</td>
<td>Advanced Computer-Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 269</td>
<td>Special Topics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 40

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ARCH 134, 136, 144; ART 40, 41, 80

**Art Associate Degree Program**

The Art Associate Degree program is designed to provide the transfer art major the opportunity to achieve an Associate degree in the student's area of specialization. While a baccalaureate degree is recommended for those considering professional careers in art, completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment.

Suggested major sequence for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 40</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 41*</td>
<td>Three-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 80</td>
<td>Beginning Drawing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select three units from Options below.</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 25</td>
<td>Survey of Art History: Ancient Worlds to Gothic</td>
<td>3</td>
</tr>
<tr>
<td>ART 26</td>
<td>Survey of Art History: Renaissance to Modern</td>
<td>3</td>
</tr>
<tr>
<td>ART 50*</td>
<td>Beginning Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 85*</td>
<td>Beginning Life Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Astronomy Associate Degree Program**

The Astronomy Associate Degree program is intended to prepare students to continue in astronomy, astrophysics, space science, and related fields at a four-year institution and beyond. The Associate degree is also intended to support attempts to gain entry-level employment in planetariums, observatories, and other related opportunities.

Suggested major sequence for the Associate in Science degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 20</td>
<td>General Astronomy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>and ASTR 25* Observation Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>CS 1A</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3A*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3B*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4A*</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B*</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C*</td>
<td>General Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total** 29

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

Completion of all the courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.
### Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Refer to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. Consult with a counselor for assistance in planning a program.

RECOMMENDED ELECTIVES: ASTR 45

### Automotive Technology

The Automotive Technology programs are designed to prepare students for employment as mechanics and automotive technicians. Training is given in both theory and practical skills in the operation, maintenance, and repair of all types of automotive engines. The following four options are available: Automotive Chassis Specialist, Automotive Engine Service Specialist, Automotive Tune-Up Specialist, and General Automotive Mechanic.

#### Automotive Chassis Specialist Certificate Program

This program allows a student to prepare for a career with under-car emphasis. This program is ideal for the small-business owner or the dealership career-oriented technician.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 100</td>
<td>Automotive Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 105*</td>
<td>Automotive Power Train</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 106A*</td>
<td>Automotive Suspension and Alignment</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 106B*</td>
<td>Automotive Brakes</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 107*</td>
<td>Automatic Transmissions</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 108*</td>
<td>Automotive Air Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 109*</td>
<td>California State Smog License Course</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 189</td>
<td>Special Topics</td>
<td>1.5</td>
</tr>
<tr>
<td>AUTO 206</td>
<td>Electrical/Electronic Systems Training</td>
<td>1.5</td>
</tr>
<tr>
<td>AUTO 220*</td>
<td>Alternative Propulsion Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 230*</td>
<td>Special Projects Automotive Servicing</td>
<td>1.5</td>
</tr>
<tr>
<td>AUTO 289</td>
<td>Special Topics</td>
<td>1.5</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

#### Automotive Tune-up Specialist Certificate Program

This program allows a student to prepare for a career as an automotive machine shop technician. Emphasis is on detailed instruction in all phases of engine machining and blueprinting procedures. Students will rebuild a complete engine in a two-semester course sequence. Designed for the student considering opening an automotive machine shop.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 100</td>
<td>Automotive Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 102*</td>
<td>Automotive Tune-up/ignition Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 103*</td>
<td>Tune-up/Fuel and Emissions Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 104A*</td>
<td>Automotive Engines</td>
<td>5</td>
</tr>
<tr>
<td>AUTO 104B*</td>
<td>Automotive Engines</td>
<td>5</td>
</tr>
<tr>
<td>AUTO 204*</td>
<td>California State Smog License Course</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 289</td>
<td>Special Topics</td>
<td>1.5</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

#### Associate Degree

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: AUTO 109, 204; MATH 351.

### Automotive Engine Service Specialist Certificate Program

This program prepares a student for a career as an automotive maintenance technicians. Emphasis is on detailed instruction in all phases of engine machining and blueprinting procedures. Students will rebuild a complete engine in a two-semester course sequence. Designed for the student considering opening an automotive machine shop.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 108*</td>
<td>Automotive Air Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 109*</td>
<td>California State Smog License Course</td>
<td>4</td>
</tr>
<tr>
<td>AUTO 189</td>
<td>Special Topics</td>
<td>1.5</td>
</tr>
<tr>
<td>AUTO 204*</td>
<td>High Performance Engine Blueprinting</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 220*</td>
<td>Alternative Propulsion Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 230*</td>
<td>Special Projects Automotive Servicing</td>
<td>1.5</td>
</tr>
<tr>
<td>AUTO 289</td>
<td>Special Topics</td>
<td>1.5</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
Certificate and Degrees

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

General Automotive Mechanic Certificate Program

This program provides a student with a complete knowledge of all operating systems in the modern automobile. Ideal for a student opening a business or working for a dealership.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO 100</td>
<td>Automotive Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 101*</td>
<td>Automotive Electrical System</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 102*</td>
<td>Automotive Tune-up/Ignition Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 103*</td>
<td>Tune-up/Fuel and Emissions Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 104A*</td>
<td>Automotive Engines</td>
<td>5</td>
</tr>
<tr>
<td>AUTO 104B*</td>
<td>Automotive Engines</td>
<td>5</td>
</tr>
<tr>
<td>AUTO 105*</td>
<td>Automotive Power Train</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 106*</td>
<td>Automotive Air Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 106A*</td>
<td>Automotive Suspension and Alignment</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 107*</td>
<td>Automotive Transmissions</td>
<td>3</td>
</tr>
<tr>
<td>AUTO 109*</td>
<td>California State Smog License Course</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>35</td>
</tr>
</tbody>
</table>

*Course has a prerequisite or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Biology Associate Degree Program—Biological Science

The Biology Associate Degree program is designed to provide the transfer biological science major the opportunity to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended for those considering professional careers related to this field, completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment. For advisement regarding additional course preparation for specializations such as biotechnology, preprofessional health programs or ecology, contact the Math, Science, and Engineering Division office, (949) 582-4820, for information or referral to appropriate faculty advisors.

Suggested major sequence for the Associate in Science degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1A*</td>
<td>Animal Diversity and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>BIO 1B*</td>
<td>Plant Diversity and Genetics</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1A*†</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B*</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>BIO 1C*</td>
<td>Biochemistry and Molecular Biology</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 12A*</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 12B*</td>
<td>Organic Chemistry</td>
<td>5</td>
</tr>
</tbody>
</table>

Total 35

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†NOTE: Students who have not successfully completed a year of high school chemistry should enroll in CHEM 3 prior to CHEM 1A. NOTE: MATH prerequisite for both CHEM 3 and 1A.

Associate Degree

Associate in Science Degree

Completion of all the courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Refer also to transfer patterns section of this catalog or to the catalog of the intended college of transfer. Consult with a counselor or biology instructor for assistance in planning alternative programs.

RECOMMENDED ELECTIVES: BIO 11, 12 or 15; MATH 3A or 11; PHYS 2A, 2B or 4A, 4B.
Business Administration
Associate Degree Program

Business Administration—Transfer

The Business Administration program is designed to provide the opportunity for the transfer business major to achieve an Associate degree in the student's area of specialization. While a baccalaureate degree is recommended preparation for those considering professional careers in Business Administration, the completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment in a degree-oriented society.

Suggested major requirements for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1A</td>
<td>Financial/Managerial Accounting</td>
<td>4,4</td>
</tr>
<tr>
<td>BUS 1</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 12</td>
<td>Business Law</td>
<td>or 3</td>
</tr>
<tr>
<td>BUS 14</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 104*</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>CIM 1</td>
<td>Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2*</td>
<td>Principles (Macro)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 4*</td>
<td>Principles (Micro)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 11*</td>
<td>A Brief Course in Calculus</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Refer to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. Consult with a counselor for assistance in planning a program.

RECOMMENDED ELECTIVES: BUS 135; ENG 1A; MATH 9, 10; PHIL 12 or 15.

Business and Commerce—General

The Business and Commerce—General Associate Degree program is designed to provide a very accessible program. In some cases, the student’s career and educational goals or transfer program needs can be better met by completing a general business background without specialization in any one area of business. A general business background may be supportive of a liberal arts graduate’s attempts to gain entry-level employment in a variety of business settings.

Suggested major requirements for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1A</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS 1</td>
<td>Introduction to Business</td>
<td>or 3</td>
</tr>
<tr>
<td>BUS 150</td>
<td>Survey of International Business</td>
<td></td>
</tr>
<tr>
<td>BUS 102</td>
<td>Oral Business Techniques (meets AA Oral Communication requirement)</td>
<td>3</td>
</tr>
<tr>
<td>BUS 103</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>BUS 104*</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS 125</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>CIM 1</td>
<td>Introduction to Computer Information Systems</td>
<td>or 3</td>
</tr>
<tr>
<td>CIM 10</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIM 120</td>
<td>Computer Literacy</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>20.5-22</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Business Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Business degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Alternative major patterns will vary dependent upon the student’s career or educational objectives. For example, students contemplating a career in Business Management with a liberal arts transfer major may support efforts to gain entry level employment by contemplating an Associate degree major in business management. The following transferable courses are suggested: ACCT 1A, 1B; BUS 1, BUS 12 or 14; BUS 104; and CIM 1. The student who has demonstrated breadth in business sciences by completion of a minimum of 20 units, in addition to those required to fulfill general education requirements, of courses appropriate for majors in accounting, computer and information management, business management, real estate, or office information systems may receive an Associate degree in business and commerce.

Refer to the Transfer Pattern section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. With proper planning, students can complete an Associate degree major with courses accepted by both the University of California and the California State University. Consult with a counselor for assistance in planning a program.

RECOMMENDED ELECTIVES: It is suggested that career goals be discussed with a Business Science faculty member and a counselor to determine the optimum elective selection; however, courses appropriate for majors in Business Science are generally recommended.
## Business Management

The Business Management programs are designed for the development of a high quality manager for whom there is an ever-growing need. This Business Management curriculum is structured to furnish a broad preparation for careers in business at the mid-management levels. There are six unique programs to choose from. Transfer Business Management majors should refer to the Business Administration Transfer Program.

### Business Leadership Certificate Program

The Business Leadership program is designed to increase the ability to succeed in a highly competitive work environment.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 150</td>
<td>Survey of International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 102</td>
<td>Oral Business Techniques (meets AA Oral Communication requirement)</td>
<td>3</td>
</tr>
<tr>
<td>BUS 104*</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS 120</td>
<td>Essentials of Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 125</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 135</td>
<td>Elements of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 137</td>
<td>Professional Selling Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BUS 295†</td>
<td>Internship Preparation-Business</td>
<td>1</td>
</tr>
<tr>
<td>CWE 168*/†/169*†</td>
<td>Cooperative Work Experience: Business Management</td>
<td>2</td>
</tr>
</tbody>
</table>

*Course has a prerequisite or recommended preparation; see course description.
†Must be taken concurrently

### Associate Degree

#### Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

#### Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

### International Business Certificate Program

Technology and international commerce have redefined business in a global context. The International Business program prepares students for careers in international business and industries that deal with international trade and global markets. The program focuses on the dynamics of international organization, environments, trade, language, socioeconomic and cultural forces, political and legal issues, and emerging global markets. Completion of the recommended electives demonstrates global competencies in international business. Elective courses provide specialized areas of study. Transfer International Business majors should refer to the Business Administration transfer curriculum.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 1</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 12</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BUS 14</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 189</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>BUS 135</td>
<td>Elements of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 150</td>
<td>Survey of International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 295†</td>
<td>Internship Preparation-Business</td>
<td>1</td>
</tr>
<tr>
<td>CWE 168*/†/169*†</td>
<td>Cooperative Work Experience: International Business</td>
<td>2</td>
</tr>
</tbody>
</table>

*Course has a prerequisite or recommended preparation; see course description.
†Must be taken concurrently

### Business Marketing Certificate Program

The Business Marketing program offers a focus of courses designed to improve student success in the field of marketing, personal selling, and advertising.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 1</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 150</td>
<td>Survey of International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 138</td>
<td>Advertising</td>
<td>3</td>
</tr>
<tr>
<td>BUS 104*</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS 125</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 135</td>
<td>Elements of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 137</td>
<td>Professional Selling Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BUS 295†</td>
<td>Internship Preparation-Business</td>
<td>1</td>
</tr>
<tr>
<td>CWE 168*/†/169*†</td>
<td>Cooperative Work Experience: Business Marketing</td>
<td>2</td>
</tr>
</tbody>
</table>

*Course has a prerequisite or recommended preparation; see course description.
†Must be taken concurrently
**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of the certificate program listed above and a minimum of levels 1 and 2 of a foreign language, and HUM 21 or ANTH/SP 20, and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: BUS 104, 120, 125, 189.

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**Professional Retailing Certificate Program**

Success in business roles and merchandising is often found in the skills of management, promotion, or merchandising. The Professional Retailing program is designed to allow a choice of additional study in one of the three skill areas.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 1</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 125</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 137</td>
<td>Professional Selling Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BUS 295</td>
<td>Internship—Business</td>
<td>1</td>
</tr>
<tr>
<td>CIM 112</td>
<td>Microsoft Office</td>
<td>3</td>
</tr>
<tr>
<td>CWE 168*/169*</td>
<td>Cooperative Work Experience: Business</td>
<td>1-4</td>
</tr>
</tbody>
</table>

Select one Specialty Industry Area from list below.

**Total** 26-29

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**Specialty Industry Area**

**Area I—Management**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 12</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>BUS 14</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 103</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>BUS 135</td>
<td>Elements of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area II—Promotion**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 135</td>
<td>Elements of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 138</td>
<td>Advertising</td>
<td>3</td>
</tr>
<tr>
<td>FASH 150</td>
<td>Fashion Apparel and Professional Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CIM 228A*</td>
<td>Business Desktop Publishing—Beginning and</td>
<td></td>
</tr>
<tr>
<td>CIM 228B*</td>
<td>Business Desktop Publishing—Advanced or</td>
<td>3</td>
</tr>
<tr>
<td>GC 101</td>
<td>Introduction to Graphic Communication</td>
<td></td>
</tr>
</tbody>
</table>

**Area III—Merchandising**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 31</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>BUS 135</td>
<td>Elements of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 143</td>
<td>Fashion Buying and Merchandising</td>
<td>3</td>
</tr>
<tr>
<td>BUS 136</td>
<td>Principles of Retailing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 147</td>
<td>The Fashion Show</td>
<td>2</td>
</tr>
<tr>
<td>BUS 148</td>
<td>Fashion Display</td>
<td>1</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

---

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.


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**Retail Management Certificate Program**

The Retail Management program, designed by managers of major retail corporations, prepares individuals to be effective managers or for promotion to management in the retail industry. The curriculum assists student’s understanding of the scope of the retail manager’s job and the requirements for success. Completion of the certificate in Retail Management enhances the opportunity for entry employment as well as advancement in a retail career.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 214</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 215</td>
<td>General Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 1A</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS 102</td>
<td>Oral Business Techniques (meets AA Oral Communication requirement)</td>
<td>3</td>
</tr>
<tr>
<td>BUS 104*</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS 120</td>
<td>Essentials of Business Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS 125</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 135</td>
<td>Elements of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 136</td>
<td>Principles of Retailing</td>
<td>3</td>
</tr>
<tr>
<td>BUS 221</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>CIM 1</td>
<td>Introduction to Computer Information Systems</td>
<td></td>
</tr>
<tr>
<td>CIM 10</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 30-31

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

---

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

RECOMMENDED ELECTIVES: BUS 12 or 14, 137, 138.
Small Business Management Certificate Program

Provides a focused approach to managing your own small business, or being a responsible team member.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 12</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 14</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>BUS 120</td>
<td>Essentials of Business Management</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 150</td>
<td>Survey of International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 135</td>
<td>Elements of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Internship Preparation-Business</td>
<td>1</td>
</tr>
<tr>
<td>CWE 168†</td>
<td>Cooperative Work Experience: Business Management</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>Professional Selling Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>BUS 160</td>
<td>Small Business Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Must be taken concurrently

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Chemistry Associate Degree Program

The Chemistry Associate Degree program is designed to provide the transfer chemistry major the opportunity to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended for those considering professional careers related to chemistry, completion of the suggested program will demonstrate commitment to the field; provide comprehensive preparation for upper-division work; and/or attainment of a degree supportive of attempts to gain entry-level employment at the technician level in government agencies and many areas of industry and manufacturing such as petroleum, foods, pharmaceuticals, plastics, and textiles.

Suggested major sequence for the Associate in Science degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A†</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B†</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 12A*</td>
<td>5</td>
</tr>
<tr>
<td>and</td>
<td></td>
</tr>
<tr>
<td>CHEM 12B*</td>
<td>5</td>
</tr>
</tbody>
</table>

Total 20

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†NOTE: Students who have not successfully completed a year of high school chemistry should complete CHEM 3 prior to enrolling in CHEM 1A. NOTE: MATH prerequisite for both CHEM 3 and 1A.

Associate in Science Degree

Completion of all the courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Child Development

The purpose of the Child Development program is to provide a foundation of understanding and skills for those interested in pursuing careers which provide services to children and families such as infant/toddler programs; early-childhood programs; school-age programs; community agencies; health programs; and marketing children’s books, toys, magazines, and educational software. The program is relevant for child development specialists, early childhood teachers, elementary school teachers, directors, recreation leaders, parents, and potential parents.

The Child Development program offers three programs; Early-Childhood, Infant/Toddler, and School-Age Child.

A minimum grade of “C” in each course is required to receive the certificate.

Early-Childhood Certificate Program

The goals of this course of study are to help the student develop an understanding and philosophy of early childhood programs and to develop the necessary skills to become competent teachers for children two to five years of age.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD 101*</td>
<td>Observation of Young Children</td>
<td>3</td>
</tr>
<tr>
<td>HD 110</td>
<td>Principles and Programs for Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>HD 120</td>
<td>Child Guidance</td>
<td>3</td>
</tr>
<tr>
<td>HD 131</td>
<td>Creative Activities in Child Development</td>
<td>3</td>
</tr>
<tr>
<td>HD 145</td>
<td>Young Children, Language Arts, and Literature</td>
<td>3</td>
</tr>
<tr>
<td>HD 150</td>
<td>Science, Safety, and Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>HD 160*</td>
<td>Curriculum in Early-Childhood Programs</td>
<td>3</td>
</tr>
</tbody>
</table>
Course ID Title Units

HD 181† Practicum/Field Work 2
and
CWE 168*/169† Cooperative Work Experience: Child Development 1
HSC 229 First Aid and Health for Early-Childhood Teachers 1
PSYC 7 Developmental Psychology: Childhood and Adolescence 3
SOC 15 Socialization of the Child 3

Total 30

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Must be taken concurrently

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: PSYC 1; HLTH 2; HSC 224

School-Age Child Certificate Program

The School-Age Child Certificate is designed to foster understanding and develop skills required to work with children age six through twelve years in childcare.

Course ID Title Units

HD 106 Teaching Culturally Diverse Children 3
HD 112 Exceptional Children 3
HD 150 Science, Safety, and Nutrition 2
HD 175 Adult Supervision in Early-Childhood/School-Age Centers 2
HD 266 Curriculum Planning for School-Age Childcare 1
HD 267 Program and Staff Development for School-Age Childcare 1
HD 268 Guidance and Discipline for School-Age Childcare 1
HD 282† Practicum/Field Work (School-Age Children) 2
and
CWE 168*/169† Cooperative Work Experience: Child Development 1
HSC 229 First Aid and Health for Early-Childhood Teachers 1
PSYC 7 Developmental Psychology: Childhood and Adolescence 3
SOC 15 Socialization of the Child 3

Total 23

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Must be taken concurrently

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.
Students desiring to develop proficiencies and skills necessary for paraprofessional work in family service fields (such as juvenile homes for the developmentally disabled or physically handicapped, halfway homes, homes for unwed mothers, crisis centers, recreation programs, Red Cross, hospitals, and mental and penal institutions) are also advised to take the following courses: HS 120, 191; BUS 120; PSYC 106, SOC 10.

A major in Child Development (24 units-including HD 181) plus 16 additional general education courses is required for the Child Development Permit (state permit to teach in a state or federally funded preschool).

RECOMMENDED ELECTIVES: ED 100; HLTH 2; HSC 224.

Computer and Information Management

The Computer and Information Management program includes seven programs that prepare students for careers using technology in the business workplace. The programs are: Applications Developer; Business Systems Analyst; E-Commerce Specialist; Network Systems Specialist; Software Specialist, with five areas of concentration; Web Designer; and Webmaster.

Applications Developer Certificate Program

This program is designed to prepare the student for an entry-level job in business applications programming.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 1</td>
<td>Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CIM 10</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CIM 174+</td>
<td>Computer Operating Systems: Windows</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CIM 176*</td>
<td>Computer Operating Systems: Windows-Advanced</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CIM 206*</td>
<td>Introduction to SQL</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CIM 246*</td>
<td>Application Development for Excel with Visual Basic</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CIM 248*</td>
<td>Application Development for Access with Visual Basic</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CIM 251*</td>
<td>Introduction to Networking</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select six units of one language from</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Programming Courses listed below</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select three units from Specialty Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>listed below</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select three units from Specialty Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>listed below</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>27</td>
</tr>
</tbody>
</table>

Programming Courses:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 2A*</td>
<td>Business Programming I: Visual Basic</td>
<td>3</td>
</tr>
<tr>
<td>CIM 2A<em>B</em></td>
<td>Business Programming II: C++</td>
<td>3</td>
</tr>
<tr>
<td>CIM 2B</td>
<td>Business Programming: Java</td>
<td>3</td>
</tr>
<tr>
<td>CIM 269</td>
<td>JavaScript</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 270</td>
<td>Introduction to Perl Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Specialty Courses:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 172+</td>
<td>Computer Operating Systems: UNIX/LINUX</td>
<td>3</td>
</tr>
<tr>
<td>CIM 208</td>
<td>Managing the Client/Server Environment</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 216+</td>
<td>Spreadsheets: Excel</td>
<td>3</td>
</tr>
<tr>
<td>CIM 218+</td>
<td>Database: Access</td>
<td>3</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ACCT 1A, 1B, BUS 1, 12; CIM 112, 121A, 142, 189, 206, 227, 243, 251, 252, 265, 289, ECON 2, 4; MATH 9, 10.

Business Systems Analyst Certificate Program

This program is designed to prepare the student for an entry-level trainee as a Business Systems Analyst.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1A</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 1B</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS 12</td>
<td>Business Law</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 14</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS 104*</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIM 1</td>
<td>Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIM 10</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIM 112</td>
<td>Microsoft Office</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIM 142*</td>
<td>Systems Analysis Methodologies</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIM 162*</td>
<td>Select three units from Programming Courses listed below</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIM 206*</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIM 251*</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 29

Programming Courses:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 2A*</td>
<td>Business Programming I: Visual Basic</td>
<td>3</td>
</tr>
<tr>
<td>CIM 2A<em>B</em></td>
<td>Business Programming II: C++</td>
<td>3</td>
</tr>
<tr>
<td>CIM 7A*</td>
<td>Business Programming I: Java</td>
<td>3</td>
</tr>
<tr>
<td>CIM 7A*B</td>
<td>Business Programming: Java</td>
<td>3</td>
</tr>
<tr>
<td>CIM 269</td>
<td>JavaScript</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 270</td>
<td>Introduction to Perl Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.
**Network Systems Specialist Certificate Program**

This program prepares the student for an entry-level position as an information systems, network systems specialist.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 1</td>
<td>Introduction to Computer Information Systems or</td>
<td>3</td>
</tr>
<tr>
<td>CIM 10</td>
<td>or Introduction to Information Systems</td>
<td></td>
</tr>
<tr>
<td>CIM 111+</td>
<td>or Computer Operating Systems: DOS Command Line—Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIM 112+</td>
<td>or Computer Operating Systems: UNIX/LINUX</td>
<td>3</td>
</tr>
<tr>
<td>CIM 114+</td>
<td>or Computer Operating Systems: Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIM 116*</td>
<td>or Computer Operating Systems: Windows—Advanced</td>
<td>3</td>
</tr>
<tr>
<td>CIM 251*</td>
<td>Introduction to Networking</td>
<td>3</td>
</tr>
<tr>
<td>CIM 252*</td>
<td>Networking Essentials and Technologies</td>
<td>3</td>
</tr>
<tr>
<td>CIM 259*</td>
<td>Windows Network Infrastructure Administration</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Specialty Area listed below.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>6-12</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>30-36</strong></td>
</tr>
</tbody>
</table>

**Specialty Areas:**

**Microsoft:**
- CIM 253* Supporting Windows Server 3
- CIM 254* Implementing and Administering Windows Directory Services 3

**Internet:**
- CIM 7A*/B* Business Programming: JAVA—Beginning/Advanced 3, 3
- CIM 227* Internet and Web Essentials 1.5
- CIM 217A Basic Web Development—HTML 1.5
- CIM 217B Advanced Web Development 1.5
- CIM 279* Internet and Intranet Security 1.5

**UNIX/LINUX:**
- CIM 256* Fundamental UNIX/LINUX System Administration 3
- CIM 257* Networking/Internet and Security Administration using UNIX/LINUX 3
- CIM 258* Web Server Administration Using Apache in UNIX/LINUX Environment 3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.
Software Specialist Certificate Program

The Software Specialist Certificate program prepares the student for an entry-level position as a software specialist from a group of core courses and a selection of one of five concentrations to obtain each certificate: Operating Systems, Spreadsheet, Database, Generalist, and Desktop Publishing. The core consists of four courses (9 units) that must be taken along with one area of concentration. A student may complete one or more concentrations in the Software Specialist Certificate Program.

### Core Courses:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 1</td>
<td>Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Introduction to Information Systems</td>
<td></td>
</tr>
<tr>
<td>CIM 10</td>
<td>Keyboarding for Computers—Beginning</td>
<td>1.5</td>
</tr>
<tr>
<td>or</td>
<td>Operating Systems: Windows</td>
<td>3</td>
</tr>
<tr>
<td>CIM 227*</td>
<td>Internet and Web Essentials</td>
<td>1.5</td>
</tr>
<tr>
<td>or</td>
<td>Web Development: QuickBooks</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 246*</td>
<td>Application Development for Excel</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Computerized Accounting: Quicken</td>
<td></td>
</tr>
<tr>
<td>CIM 276*</td>
<td>Web Database Management</td>
<td>3</td>
</tr>
</tbody>
</table>

### Operating Systems Concentration (12 Units):

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 172*</td>
<td>Computer Operating Systems: UNIX/LINUX</td>
<td>3</td>
</tr>
<tr>
<td>CIM 176*</td>
<td>Computer Operating Systems: Windows—Advanced</td>
<td>3</td>
</tr>
<tr>
<td>CIM 249*</td>
<td>Administering Microsoft Windows Clients</td>
<td>3</td>
</tr>
</tbody>
</table>

### Spreadsheet Concentration (9 Units):

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 216+</td>
<td>Spreadsheets: Excel</td>
<td>3</td>
</tr>
<tr>
<td>CIM 216C*</td>
<td>Spreadsheets: Excel—Advanced</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 222*</td>
<td>Computerized Accounting: Quicken</td>
<td>1.5</td>
</tr>
<tr>
<td>or</td>
<td>Computerized Accounting: QuickBooks</td>
<td></td>
</tr>
<tr>
<td>CIM 246*</td>
<td>Application Development for Excel</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Application Development for Excel with Visual Basic</td>
<td></td>
</tr>
</tbody>
</table>

### Database Concentration (15 Units):

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 142*</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>CIM 205*</td>
<td>Introduction to SOL</td>
<td>3</td>
</tr>
<tr>
<td>CIM 218+</td>
<td>Database: Access</td>
<td>3</td>
</tr>
<tr>
<td>CIM 248*</td>
<td>Application Development for Access</td>
<td>3</td>
</tr>
<tr>
<td>CIM 276*</td>
<td>Web Database Management</td>
<td>3</td>
</tr>
</tbody>
</table>

### Generalist Concentration (12 Units):

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 121B+/C*</td>
<td>Keyboarding for Computers—Intermediate/Advanced</td>
<td>1.5, 1.5</td>
</tr>
<tr>
<td>CIM 214+</td>
<td>Word Processing: Word</td>
<td>3</td>
</tr>
<tr>
<td>CIM 216+</td>
<td>Spreadsheets: Excel</td>
<td>3</td>
</tr>
<tr>
<td>CIM 218A*</td>
<td>Database: Access—Beginning</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 229A*</td>
<td>Business Desktop Publishing—Beginning</td>
<td>1.5</td>
</tr>
<tr>
<td>or</td>
<td>Business Graphics—Beginning</td>
<td></td>
</tr>
<tr>
<td>CIM 229A*</td>
<td>Business Graphics—Advanced</td>
<td></td>
</tr>
<tr>
<td>CIM 230*</td>
<td>Business Presentations: PowerPoint</td>
<td></td>
</tr>
</tbody>
</table>

### Desktop Publishing Concentration (15 Units):

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 214+</td>
<td>Word Processing: Word</td>
<td>3</td>
</tr>
<tr>
<td>CIM 228A+/B*</td>
<td>Business Desktop Publishing—Beginning/Advanced</td>
<td>1.5, 1.5</td>
</tr>
<tr>
<td>CIM 229A+/B*</td>
<td>Business Graphics—Beginning</td>
<td></td>
</tr>
<tr>
<td>CIM 230*</td>
<td>Business Presentations: PowerPoint</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 272A*</td>
<td>Web Design for Business—Beginning</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 274A</td>
<td>Web Digital Imagery: Photoshop—Beginning</td>
<td>3</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

### Associate Degree

#### Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

#### Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.


### Web Designer Certificate Program

The Web Designer Certificate Program prepares the student to develop a Web presence for businesses, organizations, and individuals in communication, marketing, and data management through the development of a Web site. Students will learn how to reach an audience and communicate ideas. The program includes basic and advanced software skills, developing a mission, goals, and the promotion and maintenance of a Web site. Students may choose electives to round out their program.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 264A+/B*</td>
<td>Web Animation: Flash—Beginning/Advanced</td>
<td>1.5, 1.5</td>
</tr>
<tr>
<td>CIM 269</td>
<td>JavaScript</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 271A</td>
<td>Basic Web Development—HTML</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 271B*</td>
<td>Advanced Web Development—HTML</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 272A+/B*</td>
<td>Web Design for Business—Beginning/Advanced</td>
<td></td>
</tr>
<tr>
<td>CIM 274A/B*</td>
<td>Web Digital Imagery: Photoshop—Beginning</td>
<td>1.5, 1.5</td>
</tr>
<tr>
<td>CIM 275*</td>
<td>Introduction to E-Commerce</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 278A/B*</td>
<td>Dreamweaver—Beginning/Advanced</td>
<td>1.5, 1.5</td>
</tr>
<tr>
<td>CIM 290†</td>
<td>Internship</td>
<td>1.5</td>
</tr>
<tr>
<td>CWE 168†/169†</td>
<td>Cooperative Work Experience: Computer and Information Management</td>
<td>1</td>
</tr>
<tr>
<td>and</td>
<td>and</td>
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</tr>
<tr>
<td>Select 6 units from the Restricted Electives list below</td>
<td>6</td>
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</tr>
</tbody>
</table>

**Total** 25.5

**Restricted Electives:**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 7A+/B*</td>
<td>Business Programming: Java—Beginning/Advanced</td>
<td>3, 3</td>
</tr>
<tr>
<td>CIM 232*</td>
<td>Multimedia Authoring</td>
<td>3</td>
</tr>
<tr>
<td>CIM 235A+/B*</td>
<td>Virtual Reality Simulations—Basics/Intermediate</td>
<td>1.5, 1.5</td>
</tr>
<tr>
<td>CIM 268</td>
<td>Web Advanced Media Integration</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 280</td>
<td>Virtual Reality in Business</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 289</td>
<td>Special Topics</td>
<td>1.5-3</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
The Computer Maintenance Technology Certificate program prepares the student for entry-level employment as a computer technologist or computer technician in companies involved in the manufacture, installation, repair, maintenance, upgrading, or sales of personal computers and hardware for personal computers and computer networks.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 265</td>
<td>Fundamental UNIX/Linux System Administration</td>
<td>3</td>
</tr>
<tr>
<td>CIM 257</td>
<td>Networking/Internet and Security Administration Using UNIX/Linux</td>
<td>3</td>
</tr>
<tr>
<td>CIM 258</td>
<td>Web Server Administration Using Apache in UNIX/Linux Environment</td>
<td>3</td>
</tr>
<tr>
<td>CIM 263</td>
<td>Web Development: Visual InterDev</td>
<td>3</td>
</tr>
<tr>
<td>CIM 267</td>
<td>Web Server: Active Server Page (ASP)</td>
<td>1.5</td>
</tr>
<tr>
<td>CIM 289</td>
<td>Special Topics</td>
<td>1.5</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

+Completion of the A and B versions of this course can also be used to fulfill this requirement.

†Must be taken concurrently
## Computer Science Associate Degree Program

The Computer Science Associate Degree program is designed to prepare the student for junior-level standing in a computer science program at a four-year institution. Students should refer to the transfer programs section of this catalog as well as to the catalog of the intended transfer institution for specific requirements.

Suggested major sequence for the Associate in Science degree:

### Course ID | Title | Units
---|---|---
CS 1A | Introduction to Computer Science | 3
CS 1B | Introduction to Programming | 3
CS 1C | Advanced Programming | 3
CS 2B | Data Structures | 3
CS 3A | Computer Organization and Machine Language | 3
CS 3B | Computer Organization and Assembly Language | 3
MATH 3A | Analytic Geometry and Calculus | 4
MATH 3B | Analytic Geometry and Calculus | 4

Total: 29-30

### Specialty Courses:

- **CS 4A** Introduction to Java for Computer Science 3
- **CS 4B** Advanced Topics in Java for Computer Science 3
- **CS 14** C Programming 3
- **CS 15** C++ Programming 3
- **CS 18** Ada Programming 3
- **ET 114** Digital Electronic Circuits 4

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

### Associate Degree

#### Associate in Science Degree

Completion of all courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

#### Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: MATH 351.

## Consumer Services Certificate Program

The Consumer Services program prepares students for a wide variety of employment opportunities that link the consumer, business, and government and improve communication among all three groups. This includes acting in a responsible manner to consumer problems and trends and providing information so that the consumer can use the products and services of a company correctly and with maximum benefit.

This program offers coursework for professional improvement and retraining as well as core courses to be utilized as transfer courses for students pursuing a bachelor’s degree in programs involving Family and Consumer Sciences/Home Economics, Business/Credit Counseling, or Consumer Services.

### Course ID | Title | Units
---|---|---
BUS 125 | Human Relations in Business | 3
BUS 160 | Introduction to Small Business Management | 3
CIM 112 | Microsoft Office | 3
FCS 115 | Consumer Issues | 3
FCS 142 | Life Management | 3
FCS 142A | Life Management | 1,1
CWE 168/169* | Cooperative Work Experience: Family Resources | 2

*Select one Specialty Area from below.

Total: 23

### Specialty Area 1—Foods and Nutrition:

- **FN 50** Fundamentals of Nutrition 3
- **FN 110** Modern Food Preparation 3

### Specialty Area 2—Interior Design:

- **ID 110** Fundamentals of Interior Design 3
- **ID 130** Interior Materials and Products 3

### Specialty Area 3—Fashion:

- **FASH 51** Textiles 3
- **FASH 150** Fashion Apparel and Professional Technique 3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: BUS 12, 103, 104, 135, 137; FN 64, 160, 171, 252; HLTH/HSC 105; JRN 1; LGL 12, SP 1.

Cosmetology Certificate Program

The following program is designed to prepare students for the State Board of Cosmetology examination and with successful completion of the program, students should be able to enter careers as cosmetologists. The program is offered on an open enrollment basis, and a waiting list may be maintained for those students who desire to enroll. Interested students should contact the Technology and Applied Science Division Office.

This program has a minimum requirement of 1600 hours with 400 hours required for each course.

Course ID Title Units
COS 400A Comprehensive Cosmetology I (400 hours) 12
COS 400B Comprehensive Cosmetology II (400 hours) 12
COS 400C Comprehensive Cosmetology III (400 hours) 12
COS 400D Comprehensive Cosmetology IV (400 hours) 12

Total (1,600 hours) 48

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

The Cosmetology Certificate Program is a nondegree-granting program; the courses in this program may not be used to satisfy Associate degree major elective unit requirements.

Cross-Cultural Studies Associate Degree Program

The Cross-Cultural Studies Associate Degree program provides the transfer cross-cultural major opportunity to achieve an Associate degree in this area of study. While a baccalaureate degree is recommended for career advancement, completion of the program will demonstrate commitment to the field, and provide preparation for upper-division work in Ethnic Studies and/or attainment of a degree supportive of entry-level employment.

The Cross-Cultural Studies program is interdisciplinary in scope and will begin with a focus on the history, literature, and cultures of African Americans, Asian Americans, Chicano/Latinos, and Native Americans. Courses also explore the relations of these cultures to each other and their relations to the dominant American culture in order to foster understanding about such topics as ethnicity, race, gender, sexuality/orientation, class, and religion. In the future, other groups which have been isolated in a similar manner from dominant American culture will be included in the Cross-Cultural Studies Program.

Select a minimum of 21 units from the following list of required Cross Cultural Studies classes. Many of these courses also fulfill general education course requirements.

Core Requirements
(Both courses are required for a major)
Course ID Title Units
CCS 1 Multicultural America: The One and The Many 3
CCS 2 Multicultural America: Turning Points 3

Breadth Requirements
Social and Behavioral Sciences 6
Humanities/Arts Perspective 6
Restricted Electives 3

Total 21

Social and Behavioral Sciences
(Choose 6 units from the following courses)
Course ID Title Units
ANTH 4 Native American Indian Culture 3
ANTH 7 Indians of Southern California 3
ANTH 21 Women and Culture: Cross-Cultural Perspective 3
CCS 10 Margins and Border Crossings 3
HIST 21 Women in United States History; A Multicultural Perspective 3
HIST 31* The Political/Social History of the Chicanas/os 3
HIST 81 African American History 3
SOC 4 Introduction to Chicano/a Studies in Contemporary Society 3
SOC 5* Introduction to African American Culture 3
SOC 6 Introduction to Asian Cultures in the United States 3
SOC 20 Ethnic Cultures of the United States 3
WS 21 Ethnic Women’s Issues in Contemporary America 3

Humanities/Arts Perspective
(Choose 3 units from the following courses)
Course ID Title Units
ENG 23A* American Ethnic Writing: African American Literature 3
ENG 23B* American Ethnic Writing: Chicano Literature 3
ENG 24* Ethnic Voices in Literature: The American Experience 3
MUS 27 History of Jazz 3
TA 110 Chicano/Latino Theatre 3

Restricted Electives
(Choose 3 units from the following courses)
Course ID Title Units
ART 22 Survey of Asian Art 3
ART 23 African and Oceanic Art 3
ART 24 Indigenous Arts of the Americas 3
ART 29 Introduction to World Art 3
CHI 21* Introduction to Chinese Culture 3
HIST 27 Latin America: Pre-European to Independent Nationhood 3
HIST 28 Latin America: Nationhood to Contemporary Latin America 3
HIST 31* Mexican Civilization 4
HIST 70 History of Asia to 1800 3
HIST 72 History of China 3
HIST 80 Introduction to Contemporary Africa 3
JA 21* Introduction to Japanese Culture 3
KOR 21* Introduction to Korean Culture 3
MUS 23 Introduction to World Music 3
PE/TA 64 History of Dance 3
PHIL 10* World Religions 3
PS 17 Latin American Politics and Government 3
PSYC 16* Psychology of Prejudice 3
Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ANTH 105A, 105B*, 108*; FASH 144; PE 28; 29.

Culinary Arts

(ALSO SEE FOODS)

The Culinary Arts courses are designed to train students for careers in catering, chef training, and restaurant operations, as well as for promotion of foods, equipment, and products. The program offers coursework for professional improvement, and some courses can be utilized as transfer courses for students pursuing a bachelor’s degree in Family and Consumer Sciences/Home Economics with a foods emphasis.

Catering Certificate Program

The Catering program is designed to prepare students for a wide variety of employment opportunities within catering operations as well as for developing and owning their own catering business.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 160</td>
<td>Introduction to Small-Business</td>
<td>3</td>
</tr>
<tr>
<td>FN 50</td>
<td>Fundamentals of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FN 110†</td>
<td>Modern Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>FN 120</td>
<td>Contemporary Meals</td>
<td>3</td>
</tr>
<tr>
<td>FN 142†</td>
<td>Classical Cuisine</td>
<td>2</td>
</tr>
<tr>
<td>FN 171</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>FN 252</td>
<td>Serving Safe Food</td>
<td>1</td>
</tr>
<tr>
<td>FN 172</td>
<td>Catering</td>
<td>2</td>
</tr>
<tr>
<td>FN 173</td>
<td>Catering and Banquets</td>
<td>2</td>
</tr>
<tr>
<td>FN 189†</td>
<td>Special Topics: Foods and Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>FN 289†</td>
<td>Special Topics: Foods and Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>CWE 168*/169†</td>
<td>Cooperative Work Experience:</td>
<td>2-6</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>FN 289‡</td>
<td>Food and Nutrition</td>
<td></td>
</tr>
<tr>
<td>Select three Specialty Courses from below.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>28-31</td>
</tr>
</tbody>
</table>

Specialty Courses:

- FN 140 International Foods 2
- FN 220 Country French Foods 2
- FN 221 French Cuisine 2
- FN 222 Chinese Foods 2
- FN 223 Asian Foods 2
- FN 226 Mexican Foods 2
- FN 227 Mediterranean Foods 2
- FN 228 Italian Foods 2
- FN 230 Vegetarian Foods 2
- FN 232 Lite Cuisine Strategies 2
- FN 236 American Regional Foods 2
- FN 237 Food and Beverage Operations 3
- FN 289 Special Topics: Foods and Nutrition 1

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†FN 110 and 142 recommended prior to CWE 168/169.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Culinary Arts Certificate Program

The Culinary Arts program prepares students for many contemporary employment opportunities within the restaurant and hospitality industries.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 110†</td>
<td>Modern Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>FN 142‡</td>
<td>Classical Cuisine</td>
<td>2</td>
</tr>
<tr>
<td>FN 171‡</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>FN 252‡</td>
<td>Serving Safe Food</td>
<td>1</td>
</tr>
<tr>
<td>FN 172‡</td>
<td>Catering</td>
<td>2</td>
</tr>
<tr>
<td>FN 240‡</td>
<td>Intro to Culinary Arts</td>
<td>2</td>
</tr>
<tr>
<td>FN 242‡</td>
<td>Breakfasts, Lunches, and Garde-Manger</td>
<td>1</td>
</tr>
<tr>
<td>FN 244‡</td>
<td>Baking Basics</td>
<td>2</td>
</tr>
<tr>
<td>CWE 168*/169†</td>
<td>Cooperative Work Experience:</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>FN 223‡</td>
<td>Asian Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 226‡</td>
<td>Mexican Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 227‡</td>
<td>Mediterranean Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 228‡</td>
<td>Italian Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 230‡</td>
<td>Vegetarian Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 232‡</td>
<td>Lite Cuisine Strategies</td>
<td>2</td>
</tr>
<tr>
<td>FN 236‡</td>
<td>American Regional Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 275‡</td>
<td>Food and Beverage Operations</td>
<td>3</td>
</tr>
<tr>
<td>FN 289‡</td>
<td>Special Topics: Foods and Nutrition</td>
<td>1</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†FN 110 and 142 recommended prior to CWE 168/169.
### Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.


### Advanced Culinary Arts Certificate Program

The Advanced Culinary Arts program prepares students for a wide variety of employment opportunities within the restaurant, hotel, and leisure industries.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 50</td>
<td>Fundamentals of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FN 110†</td>
<td>Modern Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>FN 142†</td>
<td>Classical Cuisine</td>
<td>2</td>
</tr>
<tr>
<td>FN 171</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>FN 252</td>
<td>Serving Safe Food</td>
<td>1</td>
</tr>
<tr>
<td>FN 172</td>
<td>Catering</td>
<td>2</td>
</tr>
<tr>
<td>FN 173</td>
<td>Catering and Banquets</td>
<td>2</td>
</tr>
<tr>
<td>FN 240</td>
<td>Intro to Culinary Arts</td>
<td>2</td>
</tr>
<tr>
<td>FN 242</td>
<td>Breakfasts, Lunches, and Garde-Manger</td>
<td>1</td>
</tr>
<tr>
<td>FN 244</td>
<td>Baking Basics</td>
<td>2</td>
</tr>
<tr>
<td>FN 245*</td>
<td>Specialty and Savory Baking</td>
<td>2</td>
</tr>
<tr>
<td>FN 275</td>
<td>Food and Beverage Operations</td>
<td>3</td>
</tr>
<tr>
<td>CWE 168*†/169†</td>
<td>Cooperative Work Experience: Food and Nutrition</td>
<td>2</td>
</tr>
</tbody>
</table>

Select two Specialty Courses from below.

Total 27-32

### Specialty Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 120</td>
<td>Contemporary Meals</td>
<td>3</td>
</tr>
<tr>
<td>FN 140</td>
<td>International Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 189</td>
<td>Special Topics: Foods and Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>FN 220</td>
<td>Country French Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 221</td>
<td>French Cuisine</td>
<td>2</td>
</tr>
<tr>
<td>FN 222</td>
<td>Chinese Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 223</td>
<td>Asian Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 226</td>
<td>Mexican Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 227</td>
<td>Mediterranean Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 228</td>
<td>Italian Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 230</td>
<td>Vegetarian Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 232</td>
<td>Life Cuisine Strategies</td>
<td>2</td>
</tr>
<tr>
<td>FN 236</td>
<td>American Regional Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 289</td>
<td>Special Topics: Foods and Nutrition</td>
<td>1</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†FN 110 and 142 recommended prior to CWE 168/169.

### Associate Degree

#### Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

#### Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: BUS 104, 135, 136, 160; FN 64, 160; FCS 115, 142.

### Specialized Certificate Program

#### Food Service Certificate Program

The Food Service program prepares students for many contemporary employment opportunities. These include Chef, Cook, Specialty Restaurant Operations, Food and Beverage Service, Fast Foods Operations, and Food Service in schools and day-care centers for the young and elderly.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 125</td>
<td>Human Relations in Business</td>
<td>3</td>
</tr>
<tr>
<td>FN 50</td>
<td>Fundamentals of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>FN 110</td>
<td>Modern Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>FN 120</td>
<td>Contemporary Meals</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>FN 252</td>
<td>Serving Safe Food</td>
<td>1</td>
</tr>
<tr>
<td>FN 240</td>
<td>Introduction to Culinary Art</td>
<td>2</td>
</tr>
</tbody>
</table>

Total 18-21

**Specialty Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 220</td>
<td>Country French Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 222</td>
<td>Chinese Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 226</td>
<td>Mexican Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 227</td>
<td>Mediterranean Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 230</td>
<td>Vegetarian Foods</td>
<td>2</td>
</tr>
<tr>
<td>FN 236</td>
<td>American Regional Foods</td>
<td>2</td>
</tr>
</tbody>
</table>

### Associate Degree

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.


### Dance Associate Degree Program

The Dance Associate Degree program is designed to provide the transfer dance major the opportunity to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended for those considering professional careers related to dance, completion of the suggested program will demonstrate commitment to the field and provide comprehensive preparation for upper-division work and/or attainment of a degree supportive of attempts to gain entry-level employment.

**Suggested major sequence for the Associate degree:**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE/TA 52*</td>
<td>Ballet Dancing Level I</td>
<td>1-1.5</td>
</tr>
<tr>
<td>PE/TA 53*</td>
<td>Intermediate Ballet</td>
<td>1-1.5</td>
</tr>
<tr>
<td>PE/TA 55*</td>
<td>Modern Dance Level I</td>
<td>1-1.5</td>
</tr>
<tr>
<td>PE/TA 56*</td>
<td>Intermediate Modern Dance</td>
<td>1-1.5</td>
</tr>
<tr>
<td>PE/TA 59*</td>
<td>Jazz Dancing Level I</td>
<td>1-1.5</td>
</tr>
<tr>
<td>PE/TA 59*</td>
<td>Intermediate Jazz Dancing</td>
<td>1-1.5</td>
</tr>
</tbody>
</table>
The Drafting Technology program includes courses designed to provide a general background and specialized skills to help the student find employment in government and private enterprise, especially where drafting skills are required.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR 23*</td>
<td>Engineering Graphics and Descriptive Geometry</td>
<td>3</td>
</tr>
<tr>
<td>DR 100</td>
<td>Fundamentals of Mechanical Drafting</td>
<td>3</td>
</tr>
<tr>
<td>DR 101*</td>
<td>Mechanical Drafting</td>
<td>3</td>
</tr>
<tr>
<td>DR 102*</td>
<td>Mechanical Drafting and Design</td>
<td>3</td>
</tr>
<tr>
<td>DR 120*</td>
<td>Fundamentals of Technical Illustration</td>
<td>2</td>
</tr>
<tr>
<td>DR 150*</td>
<td>Introduction to Computer-Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>DR 151*</td>
<td>Computer-Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>DR 152*</td>
<td>Advanced Computer-Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ET 101</td>
<td>Survey of Electronics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 26

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College. Refer to the Graduation Requirements for the specific course list meeting general education requirements.

**Digital Post-Production Certificate Program**

**PENDING STATE APPROVAL**

The Digital Post-Production Certificate program provides students with career preparation or, for those already in the field, a skill upgrade in film and television editing. This includes specialty areas like graphics and animation. Using industry-standard software and state-of-the-art equipment, students will learn technical elements, as well as the aesthetics of editing. Through an internship and guided practical experience, students will also learn how to work as part of a production team that reflects the industry.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 131*</td>
<td>Digital Non-Linear Editing</td>
<td>3</td>
</tr>
<tr>
<td>CA 133*</td>
<td>Digital Cinema Production I</td>
<td>3</td>
</tr>
<tr>
<td>CA 232*</td>
<td>Advanced Non-Linear Editing</td>
<td>3</td>
</tr>
<tr>
<td>CA 233*</td>
<td>Radio/Television Internship</td>
<td>3</td>
</tr>
<tr>
<td>CA 235*</td>
<td>2D/3D Motion Graphics</td>
<td>3</td>
</tr>
<tr>
<td>CA 236*</td>
<td>Advanced 2D/3D Motion Graphics</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CA 237*</td>
<td>Digital Compositing &amp; Effects</td>
<td>3</td>
</tr>
<tr>
<td>CA 238*</td>
<td>DVD Creation</td>
<td>3</td>
</tr>
<tr>
<td>CIM 274A*</td>
<td>Web Digital Imagery</td>
<td>1.5</td>
</tr>
<tr>
<td>CWE 168*/169*</td>
<td>Cooperative Work Experience: Communication Arts</td>
<td>1</td>
</tr>
</tbody>
</table>

Total 23.5

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College. Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ARCH 124A; CIM 1A; CS 1A; GEOL 23; MATH 124, 251, 253, PHYS 20.
Ecological Restoration Certificate Program

The certificate in Ecological Restoration trains students for a practical ecological application of appropriate techniques for a variety of ecological restoration projects. The projects may be carried out by industry or government agencies and may have specific legal requirements for implementation and proof of success. Students completing the certificate may be hired by local, county, state, or federal government; private consulting firms; or subcontractors hired by any of these agencies.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECOL 201</td>
<td>Ecological Restoration Techniques</td>
<td>4</td>
</tr>
<tr>
<td>ECOL 202</td>
<td>Advanced Ecological Restoration Techniques</td>
<td>4</td>
</tr>
<tr>
<td>ENV 18</td>
<td>Introduction to Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENV 24</td>
<td>Natural History of California</td>
<td>4</td>
</tr>
<tr>
<td>ENV 106*</td>
<td>Environmental, Studies Internship</td>
<td>2</td>
</tr>
<tr>
<td>and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CWE 168*</td>
<td>Cooperative Work Experience: Ecological Restoration</td>
<td>1</td>
</tr>
<tr>
<td>HORT 29</td>
<td>Ornamental Native Plants</td>
<td>3</td>
</tr>
<tr>
<td>HORT 113</td>
<td>Soils and Fertilizer</td>
<td>3</td>
</tr>
<tr>
<td>HORT 116</td>
<td>Irrigation Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: DR 150; ENV 106; GIS 201; GEOL 23.

Economics Associate Degree Program

The Economics Associate Degree program is designed to provide the transfer economics major the opportunity to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended for those considering professional careers related to economics, completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment.

Suggested major for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 1</td>
<td>Introduction to Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 1A</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2*</td>
<td>Principles (Macro)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 4*</td>
<td>Principles (Micro)</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 3A*</td>
<td>Analytical Geometry and Calculus</td>
<td>4</td>
</tr>
</tbody>
</table>

MATH 11*  | Brief Course in Calculus                           | 4     |
| MATH 3B* | Analytical Geometry and Calculus                   | 4     |
| or       |                                                    |       |
| MATH 10* | Introduction to Statistics                         | 3     |

Select one course from recommended electives below.

**Total** 19-21

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Educational Assistant

The purpose of the Educational Assistant certificates is to promote a system of training for individuals working as educational assistants in a regular elementary classroom setting, a bilingual/multicultural setting, or with exceptional individuals having special needs. It is also designed to provide in-service for those already employed.

The three Educational Assistant certificates are Bilingual/Multicultural Assistant, Special Education Assistant, and Teacher Assistant—General. They provide an understanding of human development and socialization and philosophy of education, as well as giving students practical experience.

Educational Assistant—Special Education

The purpose of the Educational Assistant certificates is to promote a system of training for individuals working as educational assistants in a regular elementary classroom setting, a bilingual/multicultural setting, or with exceptional individuals having special needs. It is also designed to provide in-service for those already employed.

The three Educational Assistant certificates are Bilingual/Multicultural Assistant, Special Education Assistant, and Teacher Assistant—General. They provide an understanding of human development and socialization and philosophy of education, as well as giving students practical experience.

Bilingual/Multicultural Assistant Certificate Program

The Bilingual/Multicultural Assistant program is designed to provide an understanding of various cultures and experiences in working in a bilingual/multicultural setting. It is recommended that the student have or develop competency in a language other than English.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED 100</td>
<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>ED 110</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED 240</td>
<td>Teacher Aide</td>
<td>3</td>
</tr>
<tr>
<td>HD 106</td>
<td>Teaching Culturally-Diverse Children</td>
<td>3</td>
</tr>
<tr>
<td>HD 145</td>
<td>Young Children, Language Arts, and Literature</td>
<td>3</td>
</tr>
<tr>
<td>HD 150</td>
<td>Science, Safety, and Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 7</td>
<td>Developmental Psychology—Childhood and Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>SOC 15</td>
<td>Socialization of the Child</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>23</td>
</tr>
</tbody>
</table>

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.
**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

NOTE: Students seeking a Standard Teaching Credential (Multiple Subjects) at a four-year college or university should refer to liberal studies requirements in this catalog or appropriate multiple-subject degree waiver programs in the catalog of the intended transfer institution.

**Special Education Assistant Certificate Program**

The Special Education Assistant program is designed to provide understanding of and experience with exceptional children and the specific skills required to work with specific disabilities.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED 100</td>
<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>ED 110</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED 240</td>
<td>Teacher Aide</td>
<td>3</td>
</tr>
<tr>
<td>HD 112</td>
<td>Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>HD 150</td>
<td>Science, Safety, and Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>HD 170</td>
<td>Introduction to Perceptual-Motor Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 7</td>
<td>Developmental Psychology—Childhood and Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>SE 142</td>
<td>Introduction to Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SOC 15</td>
<td>Socialization of the Child</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>26</strong></td>
</tr>
</tbody>
</table>

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

NOTE: Students seeking a Standard Teaching Credential (Multiple Subjects) at a four-year college or university should refer to liberal studies requirements in this catalog or appropriate multiple-subject degree waiver programs in the catalog of the intended transfer institution.

**Electronic Technology**

The Electronic Technology program serves three main purposes: (1) to provide certificate programs to prepare the student for a multitude of careers as an electronic technician, (2) to provide electronics skill upgrading or updating for improved job-related technical competency, and (3) to prepare students for transfer to university Engineering Technology or Industrial Technology programs.

The program curriculum and equipment are reviewed regularly by local electronics companies to ensure that the graduate can work effectively in the current electronics industry and adapt to new electronic products and technologies.

The three-certificate programs available are: Analog and Digital Circuit Electronic Technology, Digital Electronic Technology, and General Electronic Technology.

**Analog and Digital Circuit Electronic Technology Certificate Program**

This program prepares the student for entry-level employment as an Electronic Technician in companies involved in the manufacture, testing, troubleshooting, and repair of analog and digital circuit hardware. Courses cover a wide variety of discrete and integrated circuits with many functions, technologies, physical implementations, frequency bands, and complexities to provide maximum flexibility for employment within the electronics industry.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 100*</td>
<td>Linear Integrated Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ET 114*</td>
<td>Digital Electronic Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ET 118*</td>
<td>Electronic Communication Systems</td>
<td>4</td>
</tr>
<tr>
<td>ET 133</td>
<td>D.C. and A.C. Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>ET 135*</td>
<td>Semiconductor Devices and Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ET 200</td>
<td>Preparation for Technical Careers</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Teacher Assistant—General Certificate Program**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED 100</td>
<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>ED 110</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ED 240</td>
<td>Teacher Aide</td>
<td>3</td>
</tr>
<tr>
<td>HD 131</td>
<td>Creative Activities in Child Development</td>
<td>3</td>
</tr>
<tr>
<td>HD 145</td>
<td>Young Children, Language Arts, and Literature</td>
<td>3</td>
</tr>
<tr>
<td>HD 150</td>
<td>Science, Safety, and Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>PSYC 7</td>
<td>Developmental Psychology—Childhood and Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>SOC 15</td>
<td>Socialization of the Child</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>23</strong></td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate Degree**.

A minimum of 12 units must be completed at Saddleback College.
Digital Electronic Technology Certificate Program

This program prepares the student for entry-level employment as an Electronic Technician in companies involved in the manufacture, testing, installation, and repair of digital computers and related equipment. This certificate covers an introduction to computer/microcomputer software and repair.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET 110*</td>
<td>Linear Integrated Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ET 114*</td>
<td>Digital Electronic Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ET 120*</td>
<td>Introduction to Computers</td>
<td>4</td>
</tr>
<tr>
<td>ET 133*</td>
<td>D.C. and A.C. Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>ET 135*</td>
<td>Semiconductor Devices and Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ET 200</td>
<td>Preparation for Technical Careers</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Emergency Medical Technology

The Emergency Medical Technology curriculum is designed to prepare the student for licensure as an EMT-1. The course prepares the student to care for the sick and injured in the hospital, at the scene of an emergency, and/or during transport. Basic life support certification is included in the course.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMT 205</td>
<td>Emergency Medical Technician</td>
<td>6.5</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>6.5</td>
</tr>
</tbody>
</table>

Engineering Associate in Science Degree Program

The Engineering curriculum is designed to provide the transfer student the opportunity to achieve an Associate in Science degree in the student’s area of interest. While a baccalaureate degree is recommended preparation for those considering professional careers in this field, the completion of the suggested program will provide comprehensive preparation for upper-division work.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A*</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B*</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CS 1A</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3A*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3B*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4A*</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3C*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 24*</td>
<td>Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 26*</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 4B*</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4C*</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>43</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
Environmental Studies
Associate Degree Program

The Environmental Studies Associate Degree program is designed to provide the transfer student with relevant general education courses and electives as well as the opportunity to achieve an Associate degree in the student's area of interest. While a baccalaureate degree is recommended for those considering professional careers related to environmental studies, completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment.

Preprofessional transfer students who plan to work in an environmentally related field are advised to select a major in another academic discipline such as natural sciences, social sciences, or business administration.

Suggested major requirements for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV 1</td>
<td>Introduction to Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENV 18*</td>
<td>Introduction to Ecology</td>
<td>4</td>
</tr>
<tr>
<td>ENV 120</td>
<td>Chemistry of Everyday Life</td>
<td>4</td>
</tr>
<tr>
<td>ENV 105*</td>
<td>Environmental Studies Internship</td>
<td>2</td>
</tr>
<tr>
<td>ENV 121</td>
<td>Environmental Studies Internship</td>
<td>2</td>
</tr>
<tr>
<td>ENV 168*/169*</td>
<td>Cooperative Work Experience: Environmental Studies</td>
<td>1</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Suggested major requirements for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1A*</td>
<td>Principles of Composition I (meets AA Writing Proficiency requirement)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 1B*</td>
<td>Principles of Composition II</td>
<td>3</td>
</tr>
</tbody>
</table>

*Course may have a prerequisite or recommended preparation, see course description.


Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Refer to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. Consult with a counselor for assistance in planning a program.

RECOMMENDED ELECTIVES: ANTH 2; ARCH 112; BIO 1A, 1B; CHEM 1A, 1B; CIM 1; CS 1A, 1B or higher programming course; GEOG 1; GEOL 1; HORT 29; PHYS 2A, 2B.
Family and Consumer Sciences
Certificate Program

The Family and Consumer Sciences program is designed to develop those skills necessary for gainful employment in the field of Home Economics. Combined with courses such as business, journalism, television, or advertising, the Family and Consumer Sciences curriculum can also fulfill the vocational objectives of those who want to use their Family and Consumer Sciences background in business or communications. Those wishing to transfer to a four-year college and receive a bachelor’s degree in Family and Consumer Sciences/Home Economics should refer to the transfer program in the catalog and in the catalog of the intended college of transfer.

Course ID Title Units
ID 125 History of Interior Architecture and
or or
ID 121* Space Planning 3
ID 122 History of Interior Architecture and Furnishings I 3
ID 125 History of Interior Architecture and Furnishings II 3

Special Topics Courses:
FASH 190/289 Special Topics .5-3
FCS 189/289 Special Topics .5-3
FN 189/289 Special Topics .5-3
ID 189/289 Special Topics .5-3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Fashion Design

The Fashion Design program prepares students with the necessary skills to obtain positions in the design, apparel manufacturing, tailoring, pattern making, custom dressmaking, and related fields. Students may focus on one or more of the following certificate programs: Fashion Design, Advanced Fashion Design and Apparel Manufacturing, Dressmaker/Color/Image Consultant, Professional Sewing of Home Furnishings, and Sewing Fashion Apparel. Many of the clothing courses can be utilized as transfer courses for those pursuing a bachelor’s degree in Family and Consumer Science (Home Economics) with a Clothing and Textiles emphasis. Refer also to Transfer Patterns section of this catalog or of the intended college of transfer.

Fashion Design Certificate Program

This Fashion Design program prepares the student for entry-level positions in the field of Fashion Design. They will be able to design clothing using the three major design procedures: flat pattern-making, draping on a dress form, and designing by sketching.

Course ID Title Units
FASH 31 Textiles 3
FASH 101 Introduction to Fashion Industry and Careers 3
FASH 111* Fashion Sewing—Intermediate 3
FASH 112* Fashion Sewing—Advanced 3
FASH 124* Wearable Art 3
FASH 130* Flat Pattern Design 3
FASH 132* Draping Fashion Designs 3
FASH 140 Fashion Image 3
FASH 144 Fashion Trends and Cultural Costumes 3
FASH 145 Internship 1
FASH 160† Fashion Fieldwork and Cooperative Work Experience: Fashion 2
FASH 154 Fashion Illustration 3
FASH 189 Special Topics: Fashion .5-3
FASH 254 Fashion in Southern California 1
FASH 289 Special Topics: Fashion .5-3
FASH 260* Computer Applications in Fashion 2

Total 30.5-35

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ACCT 114, 215; BUS 136, 138, 160; FCS 115; FASH 115, 120, 147, 201, 209, 221, 222, 230, 235, 236, 255; TA 42.

Advanced Fashion Design and Apparel Manufacturing Certificate Program

The Advanced Fashion Design and Apparel Manufacturing certificate prepares the design student to enter the apparel manufacturing field. It explores the fashion industry, studying the many career options available beyond design. It then goes deeply into pattern and clothing manufacturing. The student who completes the Fashion Design Program and then completes this advanced program will not only be able to design clothing but will be able to participate in many of the manufacturing processes.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASH 101</td>
<td>Introduction to Fashion Industry and Careers</td>
<td>3</td>
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<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FASH 110A,B,C</td>
<td>Introduction to Fashion Industry and Careers</td>
<td>1,1,1</td>
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<tr>
<td>FASH 111*</td>
<td>Fashion Sewing—Intermediate</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FASH 124*</td>
<td>Wearable Art</td>
<td>3</td>
</tr>
<tr>
<td>FASH 130*</td>
<td>Flat Pattern Design</td>
<td>3</td>
</tr>
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<td>FASH 139*</td>
<td>Draping Fashion Designs</td>
<td>3</td>
</tr>
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<td>FASH 136*</td>
<td>Apparel Design</td>
<td>3</td>
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<tr>
<td>FASH 140</td>
<td>Fashion Image</td>
<td>3</td>
</tr>
<tr>
<td>FASH 144</td>
<td>Fashion Trends and Cultural Costumes</td>
<td>3</td>
</tr>
<tr>
<td>FASH 145</td>
<td>Internship</td>
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<tr>
<td>or</td>
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<td></td>
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<tr>
<td>FASH 160†</td>
<td>Fashion Fieldwork</td>
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<tr>
<td>and</td>
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<td>CWE 168†/169†</td>
<td>Cooperative Work Experience: Fashion</td>
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<tr>
<td>FASH 155</td>
<td>Fashion Illustration</td>
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<td>or</td>
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<tr>
<td>FASH 254</td>
<td>Fashion in Southern California</td>
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<td>or</td>
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<tr>
<td>FASH 289</td>
<td>Special Topics: Fashion</td>
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<tr>
<td>FASH 234*</td>
<td>Advanced Pattern and Design Techniques</td>
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<td>FASH 238*</td>
<td>Advanced Draping and Fashion Design</td>
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<td>FASH 239*</td>
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<tr>
<td>FASH 240</td>
<td>Dye Process on Fabrics</td>
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<tr>
<td>or</td>
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<td></td>
</tr>
<tr>
<td>FASH 124*</td>
<td>Wearable Art</td>
<td>2</td>
</tr>
<tr>
<td>FASH 260*</td>
<td>Computer Applications in Fashion</td>
<td>2</td>
</tr>
</tbody>
</table>

Total 48.5-53

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Dressmaker/Color/Image Consultant Certificate Program

The students whose career goals are to combine Image Consulting, Wardrobe Planning and Custom Dressmaking can use this certificate program as a basis for their own image consulting businesses. They will learn the fine art of dressmaking, the newest techniques of construction, personal color, line, and design.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASH 101</td>
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<td>or</td>
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<td></td>
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<tr>
<td>FASH 111*</td>
<td>Fashion Sewing—Intermediate</td>
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<td>or</td>
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<tr>
<td>FASH 112*</td>
<td>Fashion Sewing—Advanced</td>
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<tr>
<td>FASH 154</td>
<td>Fashion Illustration</td>
<td>3</td>
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<td>or</td>
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<td></td>
</tr>
<tr>
<td>FASH 189</td>
<td>Special Topics: Fashion</td>
<td>3</td>
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<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FASH 254</td>
<td>Fashion in Southern California</td>
<td>1</td>
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<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FASH 289</td>
<td>Special Topics: Fashion</td>
<td>2</td>
</tr>
<tr>
<td>FASH 234*</td>
<td>Advanced Pattern and Design Techniques</td>
<td>2</td>
</tr>
<tr>
<td>FASH 238*</td>
<td>Advanced Draping and Fashion Design</td>
<td>2</td>
</tr>
<tr>
<td>FASH 239*</td>
<td>Designing for the Fashion Industry</td>
<td>2</td>
</tr>
<tr>
<td>FASH 240</td>
<td>Dye Process on Fabrics</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FASH 260*</td>
<td>Computer Applications in Fashion</td>
<td>2</td>
</tr>
</tbody>
</table>

Total 48.5-53

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.
Professional Sewing of Home Furnishings Certificate Program

Professional Sewing of Home Furnishings certificate prepares students for positions with interior specialty shops and self-employment creating, altering, and designing home furnishings.

**Course ID** | **Title** | **Units**
--- | --- | ---
FASH 31 | Textiles | 3
FASH 100 | Basic Sewing | 3
or | or |
FASH 215 | Sewing for the Beginner | 1
FASH 111* | Fashion Sewing—Intermediate | 3
FASH 154 | Fashion Illustration | 3
FASH 229* | Sewing on Sergers | 2
FASH 242* | Sewing Home Furnishings | 3
FASH 260* | Computer Applications in Fashion | 2
FASH 199 | Special Topics: Fashion | .5-3
or | or |
FASH 289 | Special Topics: Fashion | 1
or | or |
FASH 254 | Fashion in Southern California | 1
FASH 145 | Internship | 1
or | or |
FASH 160† | Fashion Fieldwork | 2
and | and |
CWE 168*†/169*† | Cooperative Work Experience: Fashion | 1
ID 110 | Fundamentals of Interior Design | 3
Select one Restricted Elective from those listed below. | 2
--- | --- | ---
Total | 23.5-30

**Restricted Electives:**
- FASH 243 The American Quilt | 2
- FASH 244 Creating and Marketing Quilted Boutique Items | 2
- FASH 245 Creating and Marketing Fabric Art | 2

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

**RECOMMENDED ELECTIVES:** FASH 101, 124, 143, 154; ID 121; BUS 160, 206.

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*Sewing Fashion Apparel Certificate Program*

The Sewing Fashion Apparel certificate prepares students to work in a dressmaking, alteration or tailoring establishment, as well as to start their own business. Such skills as tailoring, garment and pattern design, alterations, and needlework will enable the students to serve the widest variety of clientele in the custom dressmaking/tailoring field.

**Course ID** | **Title** | **Units**
--- | --- | ---
FASH 31 | Textiles | 3
FASH 110* | Contemporary Clothing Construction | 3
or | or |
FASH 111* | Fashion Sewing—Intermediate | 3
FASH 112* | Fashion Sewing—Intermediate | 3
FASH 130* | Flat Pattern Design | 3
FASH 140 | Fashion Image | 3
FASH 144 | Fashion Trends and Cultural Costumes | 3
FASH 154 | Fashion Illustration | 3
FASH 145 | Internship | 1
or | or |
FASH 160† | Fashion Fieldwork | 2
and | and |
CWE 168*†/169*† | Cooperative Work Experience: Fashion | 1
FASH 230* | Alterations and Fitting | 3
FASH 260* | Computer Applications in Fashion | 2
Select one course from each of the three groups below. | 3.5-7
--- | --- | ---
**Total** | **30.5-36**

**Group 1**
- FASH 124 Wearable Art | 3
- FASH 209* Construction of Children's Clothing | 2
- FASH 228 Computerized Embroidery | 1
- FASH 229* Sewing on Sergers | 2
- FASH 240 Dye Processes on Fabrics | 2

**Group 2**
- FASH 120* Tailoring | 3
- FASH 221* Contemporary Tailoring | 2

**Group 3**
- FASH 189 Special Topics: Fashion | .5-3
- FASH 254 Fashion in Southern California | 1
- FASH 289 Special Topics: Fashion | .5-3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.

**Associate Degree**

**Associate in Science Degree**

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**Associate in Arts Degree**

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Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Fashion Merchandising

The Fashion Merchandising program is designed to prepare professionally-trained individuals for the fashion industry. The program places emphasis on developing the fashion sense and the unique creativity of each student. The curriculum offers a comprehensive analysis of such subject areas as the manufacture, distribution, buying, and merchandising of fashion apparel.


Color and Wardrobe Consulting Certificate Program

This program is designed to prepare the student as consultant to individuals or groups concerned with wardrobe planning, appropriate line, design, and color decisions. The student will learn techniques in projecting fashion concepts and image factors that positively affect professional job performance.

The curriculum provides a foundation of understanding and skills for those students interested in pursuing the following contemporary careers: Color Consultant, Fashion Consultant/Stylist, Wardrobe Consultant/Dressmaker, Personal Image Consultant, Executive Consultant Service, and Personalized Color Consultation Service.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASH 31</td>
<td>Textiles</td>
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<tr>
<td>FASH 100</td>
<td>Basic Sewing</td>
<td>3</td>
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<tr>
<td>FASH 101</td>
<td>Introduction to Fashion Industry</td>
<td>3</td>
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<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>FASH 101A,B,C</td>
<td>Introduction to Fashion Industry</td>
<td>1,1,1</td>
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<tr>
<td>or</td>
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<tr>
<td>FASH 143</td>
<td>Fashion Buying and Merchandising</td>
<td>3</td>
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<tr>
<td>FASH 140</td>
<td>Fashion Image</td>
<td>3</td>
</tr>
<tr>
<td>FASH 144</td>
<td>Fashion Trends</td>
<td>3</td>
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<tr>
<td>FASH 145</td>
<td>Internship</td>
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<td>or</td>
<td>or</td>
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<tr>
<td>FASH 160†</td>
<td>Fashion Fieldwork</td>
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<td>and</td>
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<tr>
<td>CWE 168†/169†</td>
<td>Cooperative Work Experience:</td>
<td></td>
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<tr>
<td>FASH 147</td>
<td>The Fashion Show</td>
<td>3</td>
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<tr>
<td>FASH 150</td>
<td>Fashion Apparel and Professional Techniques</td>
<td>3</td>
</tr>
<tr>
<td>FASH 154</td>
<td>Fashion Illustration</td>
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</tr>
<tr>
<td>FASH 189</td>
<td>Special Topics: Fashion</td>
<td>.5-3</td>
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<td>or</td>
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</tr>
<tr>
<td>FASH 254</td>
<td>Fashion in Southern California</td>
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<td>or</td>
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<tr>
<td>FASH 290</td>
<td>Special Topics: Fashion</td>
<td>.5-3</td>
</tr>
<tr>
<td>FASH 201</td>
<td>Color and Wardrobe Consulting</td>
<td>3</td>
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<td>or</td>
<td>or</td>
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<tr>
<td>FASH 202</td>
<td>Image Consulting</td>
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<td>or</td>
<td></td>
</tr>
<tr>
<td>FASH 203</td>
<td>Professional Personal Shopping</td>
<td></td>
</tr>
<tr>
<td>FASH 260*</td>
<td>Computer Applications in Fashion</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total**  **30.5-35**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ACCT 114; ART 40, 42, 80; BUS 102, 103, 125, 138, 160; CIM 228A, 228B; FCS 115, 142; FASH 154, 255; GC 151.

Fashion Merchandising Certificate Program

The Fashion Merchandising certificate emphasizes all aspects of fashion merchandising including techniques of buying and selling, distributing and marketing, and promoting fashion goods. It combines a general merchandising background with training in specialized skills in order for students to find employment in today's fashion industry.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>FASH 31</td>
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<td>FASH 101</td>
<td>Introduction to Fashion Industry and Careers</td>
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<td>Introduction to Fashion Industry and Careers</td>
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<td>or</td>
<td>or</td>
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<tr>
<td>FASH 143</td>
<td>Fashion Buying and Merchandising</td>
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<td>FASH 140</td>
<td>Fashion Image</td>
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<td>FASH 144</td>
<td>Fashion Trends</td>
<td>3</td>
</tr>
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<td>FASH 145</td>
<td>Internship</td>
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<td>or</td>
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<td></td>
</tr>
<tr>
<td>FASH 160†</td>
<td>Fashion Fieldwork</td>
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<tr>
<td>CWE 168†/169†</td>
<td>Cooperative Work Experience: Fashion</td>
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<td>FASH 147</td>
<td>The Fashion Show</td>
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<td>FASH 150</td>
<td>Fashion Apparel and Professional Techniques</td>
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<td>Color and Wardrobe Consulting</td>
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<td>Image Consulting</td>
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<td>FASH 203</td>
<td>Professional Personal Shopping</td>
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<td>FASH 260*</td>
<td>Computer Applications in Fashion</td>
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</table>

Select one course from each of the three groups below: 4.5-6

**Total**  **29.5-33**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken with Cooperative Work Experience in last semester of program.

Group 1

<table>
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<td>Basic Sewing</td>
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<td>Contemporary Clothing Construction</td>
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Group 2

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Group 3

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</tr>
<tr>
<td>FASH 160†</td>
<td>Fashion Field Work</td>
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</tbody>
</table>
Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ACCT 114; BUS/LGL 12A; BUS 103, 125, 136, 137, 138; FCS 115; FASH 145, 154, 254; GC 101

Visual Fashion Merchandising Certificate Program

The Visual Fashion Merchandising program explores interior and exterior displays with an emphasis on presentation of the products and on lighting and window design. Techniques and utilization of specialized materials in a diverse range of retail options are examined, as are the development of major presentations and overall store design.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 100</td>
<td>Art Gallery/Display and Exhibition</td>
<td>3</td>
</tr>
<tr>
<td>ID 114</td>
<td>Applied Color and Design Theory for Interior Design</td>
<td>4</td>
</tr>
<tr>
<td>FASH 31</td>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>FASH 101</td>
<td>Introduction to Fashion Industry and Careers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or FASH 101A,B,C</td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Introduction to Fashion Industry and Careers</td>
<td>1,1,1</td>
</tr>
<tr>
<td>FASH 143</td>
<td>Fashion Buying and Merchandising</td>
<td>3</td>
</tr>
<tr>
<td>FASH 144</td>
<td>Fashion Trends</td>
<td>3</td>
</tr>
<tr>
<td>FASH 147</td>
<td>The Fashion Show</td>
<td>3</td>
</tr>
<tr>
<td>FASH 148</td>
<td>Fashion Display</td>
<td>1</td>
</tr>
<tr>
<td>GD 144</td>
<td>Handlettering and Typography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or GD 147</td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Introduction to Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>GD 163</td>
<td>Commercial Art Production</td>
<td>3</td>
</tr>
<tr>
<td>FASH 154</td>
<td>Fashion Illustration</td>
<td>3</td>
</tr>
<tr>
<td>FASH 145*</td>
<td>Internship</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>or FASH 160*†</td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Fashion Field Work</td>
<td>2</td>
</tr>
<tr>
<td>CWE 168†/169†</td>
<td>Cooperative Work Experience: Fashion</td>
<td>1</td>
</tr>
<tr>
<td>FASH 190</td>
<td>Special Topics: Fashion</td>
<td>.5-.3</td>
</tr>
<tr>
<td></td>
<td>or FASH 299</td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Special Topics: Fashion</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>or FASH 254</td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>Fashion in Southern California</td>
<td>1</td>
</tr>
<tr>
<td>FASH 260*</td>
<td>Computer Applications in Fashion</td>
<td>2</td>
</tr>
</tbody>
</table>

Total 28.5-34

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.

Fine Arts Associate Degree Program

The Fine Arts curricula are designed to provide the student the opportunity to achieve an Associate degree in his or her area of specialization. While a bachelor’s degree is recommended preparation for those considering professional careers in these or related fields, the completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment in a degree-oriented society.

Fine Arts General Associate Degree

Select a minimum of 20 units of courses intended for majors in fine arts programs dependent upon career goals and transfer requirements, including FA 27.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Refer to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. Consult with a counselor for assistance in planning a program.

Associate degree majors in Fine Arts are offered for the following disciplines: Art, Communication Arts, Music, Speech, Theatre Arts. Please refer to the Table of Contents for the page listing for each.
Foods Certificate Program

(ALSO SEE CULINARY ARTS)

The Foods program is designed to train students for career applications in the food and hospitality industries such as with food companies, food-related businesses and industries, and restaurants. The program offers coursework for professional improvement, and some courses can be utilized as transfer courses for students pursuing a bachelor's degree in Family and Consumer Sciences/Home Economics with a Foods emphasis.

Course ID  
Title  
Units
---
FN 50  
Fundamentals of Nutrition  
3
FN 110†  
Modern Food Preparation  
3
FN 120  
Contemporary Meals  
3
FN 140  
International Foods  
2
FN 142†  
Classical Cuisine  
2
FN 171  
Sanitation and Safety  
3
or
FN 252  
Serving Safe Food  
1
or
FN 189  
Special Topics: Foods and Nutrition  
1
or
FN 289  
Special Topics: Foods and Nutrition  
2
CWE 168*/169††  
Cooperative Work Experience: Foods and Nutrition  
2
Select three Specialty Courses  
from below:  
Total  
6-7  
25-28
For Specialty Courses:
FN 220  
Country French Foods  
2
FN 221  
French Cuisine  
2
FN 222  
Chinese Foods  
2
FN 223  
Asian Foods  
2
FN 226  
Mexican Foods  
2
FN 227  
Mediterranean Foods  
2
FN 228  
Italian Foods  
2
FN 230  
Vegetarian Foods  
2
FN 236  
American Regional Foods  
2
FN 244  
Baking Basics  
2
FN 245*  
Specialty and Savory Baking  
2
FN 275  
Food and Beverage Operations  
3
†FN 110 and 142 recommended prior to CWE 168/169 .
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Foreign Language
Associate Degree Program

The Associate degree curriculum in Foreign Language is designed to provide the transfer foreign language major the opportunity to achieve an Associate degree in the student's area of specialization. While a baccalaureate degree is recommended preparation for those considering professional careers based on a foreign language major, the completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment in a degree-oriented society.

Suggested major requirements for the Associate degree:

Course ID  
Title  
Units
---
Major Foreign Language 1*-2*  
Elementary Chinese, French, German, Italian, Japanese, or Spanish  
5-5
Major Foreign Language 3*-4*  
Intermediate Chinese, French, German, Italian, or Japanese  
5-5
Major Foreign Language 10*  
Intermediate Conversational French, German, Italian, Japanese, or Spanish  
3-3
*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: HIST 4, 5; PHIL 1.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Foreign Language General
Associate Degree Program

A student in the Foreign Language General Associate Degree program takes a total of at least 12 units in one language and six in another. The student may choose the language of major and minor emphasis from any of the languages offered: Chinese, French, German, Italian, Japanese, Korean, or Spanish.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.
Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Refer to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. Consult with a counselor for assistance in planning a program.

**General Studies**

**Associate Degree Program**

**Option I: Interdisciplinary Studies**

In some cases, the transfer student’s educational goals and transfer program are such that there is little opportunity for specialization at the lower-division level. In other cases, the student’s career goal is such that an interdisciplinary Associate degree indicative of a general education without specialization in a specific field can meet his/her needs. It is suggested that such goals be discussed with a counselor. The General Studies major is defined as follows: 20 additional units selected from the courses on the approved Associate degree general education list in addition to those used to meet the general education requirements for graduation. Courses selected for the major, then, may not also apply to general education graduation requirements. Assistance with program planning is available in the Counseling Services office.

**Option II: Emeritus Institute/Lifelong Learning**

In some cases, students’ interests and educational goals may be related to a number of disciplines, and they may seek an interdisciplinary Associate degree indicative of personal achievement or as preparation for a second career. This degree option may be of interest to students of all ages, but particularly to mid-life and older adults. The major includes courses from the general education list as indicated for Option I as well as courses offered in the Emeritus Institute.

**Option III: Transfer General Education Certification**

Refer to Associate in Arts Degree-Transfer Option in this catalog. Requirements must be completed prior to transfer.

**Geographic Information Systems Certificate Program**

The Geographic Information Systems (GIS) certificate program is a new technology that has applications in many fields. Successful completion of this program will prepare the student to use this new technology in his/her chosen area of specialization. GIS is an innovative way to organize large amounts of data by geographic area and to present the information in map (spatial) form. Many business organizations and governmental entities are requesting that their employees be trained in this field.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 15*</td>
<td>C++ Programming</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>Business Programming I: Visual Basic (for Business Majors)</td>
<td></td>
</tr>
<tr>
<td>CIM 2A*</td>
<td>Business Programming I C++</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Business Programming II C++</td>
<td></td>
</tr>
<tr>
<td>CIM 6A*</td>
<td>Computer-Aided Drafting</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Introduction to Geographic Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>GIS 201*</td>
<td>Intermediate Geographic Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>GIS 202*</td>
<td>GIS: Advanced Vector and Raster</td>
<td>3</td>
</tr>
<tr>
<td>GIS 203*</td>
<td>GIS: Advanced Applications:</td>
<td></td>
</tr>
<tr>
<td>GIS 204*</td>
<td>Internship and Fieldwork</td>
<td>3</td>
</tr>
<tr>
<td>CWE 168*</td>
<td>Cooperative Work Experience:</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>Select one course from each Specialty Area below</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>28</td>
</tr>
</tbody>
</table>

**Specialty Areas:**

**Spatial Element Courses:**

- GEOG 1 Physical Geography 3
- GEOG 2 Cultural Geography 3
- GEOG 3 World Regional Geography 3

**Spatial Related Courses:**

- ANTH 2 Cultural Anthropology 3
- ANTH 9 Introduction to Archaeology 3
- BUS 135 Introduction to Marketing 3
- ENV 6* Scarcity and Environment 3
- GEOL 3 Geology of California 3
- GEOL 110 Geology of the National Parks 3

**Spatial Element Courses With Lab:**

- ENV 23 Environmental Geology 4
- GEOL 1 Introduction to Physical Geology 4
- GEOL 1L Physical Geography Lab (Taken within one year of GEOG 1) 4
- GEOL 20 Introduction to Earth Science 4

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

**Geography**

**Associate Degree Program**

The Geography Associate Degree program is designed to provide the transfer geography major the opportunity to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended for those considering professional careers related to this field, completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment.

Suggested major sequence for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 1</td>
<td>Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 2*</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 1</td>
<td>Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2</td>
<td>Cultural Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

(Taken within one year of GEOG 1)
The Geology Associate Degree program is designed to provide the transfer geology/earth science major the opportunity to achieve an Associate degree in the student's area of specialization. While a baccalaureate degree is recommended for those considering professional careers in geological sciences, completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment as a technician in a number of settings. Information on related careers is available in the Career Center.

Suggested major sequence for the Associate in Science degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A*</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEO 1</td>
<td>Introduction to Physical Geology</td>
<td></td>
</tr>
<tr>
<td>GEO 20</td>
<td>Introduction to Earth Science</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2*</td>
<td>Pre-Calculus (required of students</td>
<td></td>
</tr>
<tr>
<td></td>
<td>unprepared for MATH 3A)</td>
<td>(4)</td>
</tr>
<tr>
<td>CHEM 2B*</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEO 2*</td>
<td>Historical Geology</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3A*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>BIO 1A*</td>
<td>Animal Diversity and Ecology</td>
<td>5</td>
</tr>
<tr>
<td>MATH 3B</td>
<td>Analytic Geometry and Calculus</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(depends on school of choice)</td>
<td>(4)</td>
</tr>
<tr>
<td>PHYS 2A*</td>
<td>Introduction to Physics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(depends on school of choice)</td>
<td>(4)</td>
</tr>
<tr>
<td>PHYS 4A*</td>
<td>General Physics</td>
<td></td>
</tr>
<tr>
<td>GEO 6*</td>
<td>Principles of Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2B*</td>
<td>Introduction to Physics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>(4)</td>
</tr>
<tr>
<td>PHYS 4B*</td>
<td>General Physics</td>
<td></td>
</tr>
</tbody>
</table>

**Total** 43-47

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

## Associate Degree

### Associate in Science Degree

Completion of all the courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

### Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: GEOL 3, 5, 23; DR 100 (if mechanical drafting not taken in high school).

### Gerontology Certificate Program

The Gerontology certificate program is comprehensive in scope. It is designed to meet the needs of career-oriented students who wish career preparation at the certificate/associate-degree level.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 101</td>
<td>Fundamentals of Aging</td>
<td>1.5</td>
</tr>
<tr>
<td>GER 110</td>
<td>Psychology of Aging</td>
<td>1.5</td>
</tr>
<tr>
<td>GER 115</td>
<td>Sociology of Aging</td>
<td>1.5</td>
</tr>
<tr>
<td>GER 120</td>
<td>Physiology of Aging</td>
<td>1.5</td>
</tr>
<tr>
<td>HS 100</td>
<td>Human Services in a Changing Society</td>
<td>3</td>
</tr>
<tr>
<td>HS 110*</td>
<td>Field Instruction and Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>HS 120</td>
<td>Human Development in the Social</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Environment</td>
<td></td>
</tr>
<tr>
<td>HS 140</td>
<td>Applied Group Leadership and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Group Process</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>3</td>
</tr>
<tr>
<td>HS 174*</td>
<td>Intervention and Referral Techniques</td>
<td></td>
</tr>
<tr>
<td>HS 150*</td>
<td>Field Instruction and Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>HSC 222</td>
<td>Basic Life Support/CPR for Health</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Care Providers</td>
<td>.75</td>
</tr>
</tbody>
</table>

Select one of the Specialty Areas below. 3-6.5

**Total** 24.75-29.25

### Specialty Areas

#### Activity Leadership

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 145</td>
<td>Activity Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Caregiver Training

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 201</td>
<td>Caregiver Training I</td>
<td>3</td>
</tr>
<tr>
<td>GER 202*</td>
<td>Caregiver Training II</td>
<td>2</td>
</tr>
<tr>
<td>GER 203*</td>
<td>Caregiver Clinical</td>
<td>1.5</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Completion of the Caregiver Training specialty courses (GER 201, 202, and 203) entitles the student to apply for the Certified Home Health Aid (CHHA) State Certification from the California Department of Health Services.

### Associate Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.
Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Graphics

The Graphics program is designed to prepare students for certificates in the Computer Graphics, Graphic Communications, Graphic Design, and Illustration fields. Training is provided in both theory and practical skills. Directed skill development is stressed in the following areas of study: Computer Graphics (computer art and layout), Graphic Communications (printing), Graphic Design (design and art production), and Illustration/Animation (advertising and editorial art).

This program will provide students with the opportunity to acquire knowledge and skills that are required for employment. Associate degree, or transfer in the related areas of design, illustration, printing, and computer graphics.

Computer Graphics Certificate Program

This program is designed to prepare students for employment in computer graphics fields. Training is provided in both theory and practical skills. This program relies on the student’s basic understanding of Graphic Design and/or Graphic Communications principles as they relate to industry standards. Students are encouraged to adhere to electives noted for a rounded educational experience. Some of the careers that are found within the computer graphics field are: Computer Graphics Artist, Desktop Publisher, Prepress Technician, Computer Animator, and Multimedia Producer.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC 151</td>
<td>Desktop Electronic Publishing</td>
<td>3</td>
</tr>
<tr>
<td>GC 152*</td>
<td>Advanced Desktop Electronic Publishing</td>
<td>3</td>
</tr>
<tr>
<td>GC 153*</td>
<td>Desktop Multimedia Production</td>
<td>3</td>
</tr>
<tr>
<td>GC 154*</td>
<td>Desktop Prepress</td>
<td>3</td>
</tr>
<tr>
<td>GD 147</td>
<td>Introduction to Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>GD 148*</td>
<td>Desktop Graphic Design</td>
<td>3</td>
</tr>
<tr>
<td>GD 149*</td>
<td>Desktop Paint and Illustration</td>
<td>3</td>
</tr>
<tr>
<td>GD 150*</td>
<td>Desktop Video and Animation</td>
<td>3</td>
</tr>
</tbody>
</table>

*Total 24

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: GC 101, 102, 180; GD 140, 141, 144, 145, 163.

Graphic Communications Certificate Program

This program prepares students for careers typically found in the graphic communications field, such as Printshop Manager, Press Operator, Silkscreen Production Technician, Camera Operator, Darkroom Technician, Color Separator, Camera Stripper, and Prepress/Desktop Publisher.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC 101</td>
<td>Introduction to Graphic Communications</td>
<td>3</td>
</tr>
<tr>
<td>GC 151</td>
<td>Desktop Electronic Publishing</td>
<td>3</td>
</tr>
<tr>
<td>GC 152*</td>
<td>Advanced Desktop Electronic Publishing</td>
<td>3</td>
</tr>
<tr>
<td>GC 154*</td>
<td>Desktop Prepress</td>
<td>3</td>
</tr>
<tr>
<td>GC 162</td>
<td>Computer Typography</td>
<td>3</td>
</tr>
<tr>
<td>GC 170</td>
<td>Introduction to Screen Printing</td>
<td>3</td>
</tr>
<tr>
<td>GC 195*</td>
<td>Graphic Production Activities</td>
<td>3</td>
</tr>
<tr>
<td>GD 163</td>
<td>Commercial Art Production</td>
<td>3</td>
</tr>
</tbody>
</table>

*Total 24

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

RECOMMENDED ELECTIVES: GC 162, 164, 168, 169, 171, 172, 185, 187, 189, 190, 102, 280.

Graphic Design Certificate Program

This program option prepares students for careers typically found in the graphic design field, such as Art Director, Graphic Designer, Production Artist, Illustrator, Computer Graphics Designer, Package Designer, Product Designer, Airbrush Artist, and Lettering/Calligraphy Artist.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GD 140</td>
<td>Graphic Design—A</td>
<td>3</td>
</tr>
<tr>
<td>GD 141</td>
<td>Graphic Rendering Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GD 142</td>
<td>Package Design</td>
<td>3</td>
</tr>
<tr>
<td>GD 144</td>
<td>Handlettering and Typography</td>
<td>3</td>
</tr>
<tr>
<td>GD 145</td>
<td>Graphic Illustration</td>
<td>3</td>
</tr>
<tr>
<td>GD 147</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>GD 163</td>
<td>Commercial Art Production</td>
<td>3</td>
</tr>
<tr>
<td>GD 240*</td>
<td>Graphic Design—B</td>
<td>3</td>
</tr>
</tbody>
</table>

*Total 24

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
**Illustration/Animation Certificate Program**

This program prepares students for careers in animation and in editorial illustration such as magazine, book illustration, medical illustration, and marine illustration or in advertising illustration such as product illustration, poster art, tee-shirt, and decal art.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GD 141</td>
<td>Graphic Rendering Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GD 144</td>
<td>Handlettering and Typography</td>
<td>3</td>
</tr>
<tr>
<td>GD 145</td>
<td>Graphic Illustration</td>
<td>3</td>
</tr>
<tr>
<td>GD 147</td>
<td>Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>GD 149*</td>
<td>Desktop Paint and Illustration</td>
<td>3</td>
</tr>
<tr>
<td>GD 150*</td>
<td>Desktop Video and Animation</td>
<td>3</td>
</tr>
<tr>
<td>GD 241</td>
<td>Airbrush Techniques</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 21

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ART 40, 41, 80, 85; GC 101; GD 146.

**Home Economics**

**(SEE FAMILY AND CONSUMER SCIENCES)**

**Horticulture Certificate Program**

The Horticulture program is soundly based on horticultural technology and prepares students for careers related to production and care of plants, trees, and shrubs commonly used in landscape design, retail and wholesale nurseries, and park departments. The certificate offered within the Horticulture program is outlined below.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 20</td>
<td>Introduction to Horticultural Science</td>
<td>4</td>
</tr>
<tr>
<td>HORT 112</td>
<td>Plant Propagation</td>
<td>3</td>
</tr>
<tr>
<td>HORT 113</td>
<td>Soils and Fertilizers</td>
<td>3</td>
</tr>
<tr>
<td>HORT 116</td>
<td>Irrigation Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course from Group I, and two courses from Group II.

Total 22-23

**Group I:**
- HORT 107 Introduction to Landscape Design 3
- HORT 120* Pest Management 4

**Group II:**
- HORT 10 Plant Materials—Annuals/Groundcovers 3
- HORT 11 Plant Materials—Trees and Shrubs 3
- HORT 29 Ornamental Native Plants 3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: BIO 2, 15; BUS 1, 12, 137; CHEM 2A, 2B; CIM 1A; HORT 208, 209; SPAN 1.
Human Development
Associate Degree Program

The Associate degree curriculum in Human Development is designed to provide the child/human development transfer major the opportunity to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended preparation for those considering a child development or human development major, the completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment in a degree-oriented society.

Suggested major requirements for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 20</td>
<td>Introduction to Biology</td>
<td>4</td>
</tr>
<tr>
<td>MATH 10*</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 7</td>
<td>Developmental Psychology—Childhood and Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 15</td>
<td>Socialization of the Child</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Refer to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. Consult with a counselor for assistance in planning a program.


Human Services

Human Services department offers the following programs of study for people who want to work with people. The curricula are courses of study designed to meet the needs of career-oriented students who wish career preparation at the Associate degree or vocational certificate levels. It will also serve as an introduction to social work, social welfare, criminal justice, counseling, and other helping professions for students planning advanced degrees in these fields.

The Human Services department offers the seven programs listed below as well as a Gerontology certificate program.

Alcohol and Drug Studies Certificate Program

The Alcohol and Drug Studies program integrates theory and practical experience in developing skills necessary to work with the alcohol and drug abuse population, as well as with families and employers of chemically dependent persons. This program option combines the Human Services behavioral core, skills training, and experimental learning in the field work settings.
**Eating Disorders Certificate Program**

The Eating Disorders program is a unique and innovative program that provides students with a comprehensive background of knowledge and skills in preparing persons to work in this field. This program will meet the academic credentialing requirements of the American Association of Eating Disorders Counselors (AAEDC).

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 173</td>
<td>Family Counseling: Approaches to Alcohol Problems/Drug Abuse</td>
<td>3</td>
</tr>
<tr>
<td>HS 174*</td>
<td>Intervention and Referral Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HS 175</td>
<td>Substance Abuse Education, Prevention, and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>HS 182</td>
<td>Adolescent Substance Abuse: Treatment and Recovery</td>
<td>3</td>
</tr>
<tr>
<td>HS 191</td>
<td>Violence in the Family</td>
<td>3</td>
</tr>
<tr>
<td>HS 266</td>
<td>Dysfunctional Families and ACA Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 30  

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

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Refer to the Graduation Requirements for the specific course list meeting general education requirements.

**Family Services Certificate Program**

This program seeks to address a growing number of individual and family needs that are an outgrowth of changing family patterns. Parenting skills, single-parent education, methods of coping with stress and chemical abuse, effective budget management, general communication skills, etc., are just a few of the challenges and skills needed for effective family living in the 21st century. This program can meet the challenge by providing training for human services workers who will work in schools, community agencies, rehabilitation centers, and halfway houses and as support persons to law enforcement and other community agencies.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 100</td>
<td>Human Services in a Changing Society</td>
<td>3</td>
</tr>
<tr>
<td>HS 110*</td>
<td>Field Instruction and Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>HS 120</td>
<td>Human Development in the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>HS 150*</td>
<td>Field Instruction and Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>HS 173</td>
<td>Family Counseling: Approaches to Alcohol Problems/Drug Abuse</td>
<td>3</td>
</tr>
<tr>
<td>HS 174*</td>
<td>Intervention and Referral Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HS 175</td>
<td>Substance Abuse Education, Prevention, and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>HS 182</td>
<td>Adolescent Substance Abuse: Treatment and Recovery</td>
<td>3</td>
</tr>
<tr>
<td>HS 191</td>
<td>Violence in the Family</td>
<td>3</td>
</tr>
<tr>
<td>HS 266</td>
<td>Dysfunctional Families and ACA Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 30  

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

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Refer to the Graduation Requirements for the specific course list meeting general education requirements.

**Health and Human Services Marketing and Management Certificate Program**

This program is designed to provide specialized and practical skills in management and marketing for a variety of settings within the health and human services field. It is an educational experience providing hands-on training for front-line health care marketers, alcohol and drug counselors, social workers, MFCCs, board and care home providers, gerontology specialists, recovery home personnel, EAPs, nurses, and criminal justice and corrections personnel.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 100</td>
<td>Human Services in a Changing Society</td>
<td>3</td>
</tr>
<tr>
<td>HS 140</td>
<td>Applied Group Leadership and Group Process</td>
<td>3</td>
</tr>
<tr>
<td>HS 150*</td>
<td>Field Instruction and Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>HS 180</td>
<td>Program Management Techniques within Human Services</td>
<td>3</td>
</tr>
<tr>
<td>HS 190</td>
<td>Introduction to the Health Care Marketplace</td>
<td>3</td>
</tr>
<tr>
<td>HS 255</td>
<td>Marketing Health Care</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 18  

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
*Course has a prerequisite, corequisite, limitation, or recommendation; see course description.

**Associate Degree**

**Associate in Science Degree**

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**Associate in Arts Degree**

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Refer to the Graduation Requirements for the specific course list meeting general education requirements.

**Human Services Generalist Certificate Program**

The Human Services Generalist program is designed to provide persons with both a historical and a current perspective of the basic issues within the human services field. It will introduce students to the growing career options within the field, provide an opportunity to explore several of the program options, and generally provide the kind of information that will enable students to make informed decisions in regard to career directions.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 100</td>
<td>Human Services in a Changing Society</td>
<td>3</td>
</tr>
<tr>
<td>HS 110*</td>
<td>Field Instruction and Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>HS 120</td>
<td>Human Development in the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>HS 130</td>
<td>Special Population Issues</td>
<td>3</td>
</tr>
<tr>
<td>HS 140</td>
<td>Group Leadership and Group Process</td>
<td>3</td>
</tr>
<tr>
<td>HS 150*</td>
<td>Field Instruction and Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>HS 173</td>
<td>Family Counseling: Approaches to Alcohol</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Problems/Drug Abuse</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HS 266</td>
<td>Dysfunctional Families and ACA Issues</td>
<td>3</td>
</tr>
<tr>
<td>HS 175</td>
<td>Substance Abuse Education, Prevention,</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>and Intervention</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one course from the Recommended</td>
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</tr>
<tr>
<td>Electives below.</td>
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</tr>
<tr>
<td>Total</td>
<td></td>
<td>27</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommendation; see course description.

**Associate Degree**

**Associate in Science Degree**

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**Associate in Arts Degree**

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Refer to the Graduation Requirements for the specific course list meeting general education requirements.

**Victim Services/Domestic Violence Certificate Program**

This program introduces students to the subject of victimization and its implications within various population groups in society. The program is designed to prepare students to work in a variety of settings dealing with victims and their families.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 100</td>
<td>Human Services in a Changing Society</td>
<td>3</td>
</tr>
<tr>
<td>HS 110*</td>
<td>Field Instruction and Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>HS 119</td>
<td>Introduction to the Criminal Justice System</td>
<td>3</td>
</tr>
<tr>
<td>HS 120</td>
<td>Human Development in the Social Environment</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HS 130</td>
<td>Special Population Issues</td>
<td>3</td>
</tr>
<tr>
<td>HS 128</td>
<td>Community-Based Corrections</td>
<td>3</td>
</tr>
<tr>
<td>HS 150*</td>
<td>Field Instruction and Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>HS 160</td>
<td>Introduction to Victimology</td>
<td>3</td>
</tr>
<tr>
<td>HS 170</td>
<td>Alcohol and Other Drugs in our Society</td>
<td>3</td>
</tr>
<tr>
<td>HS 191</td>
<td>Violence in the Family</td>
<td>3</td>
</tr>
</tbody>
</table>
Certificates and Degrees

Interior Design

Saddleback College offers an interdisciplinary Interior Design curriculum partnership in conjunction with four other Southern California community colleges: Fullerton College, Long Beach City College, Mt. San Antonio College, and Orange Coast College. This regional program provides multi-level, accredited courses that prepare students with the competencies required to enter the Interior Design profession.

Level I - Interiors Merchandising Certificate Program

The Interiors Merchandising level provides the student with a short-term certificate program leading to employment in merchandising or sales.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 137</td>
<td>Professional Selling Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ID 110</td>
<td>Fundamentals of Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID 111*</td>
<td>Interior Design Studio 1</td>
<td>2</td>
</tr>
<tr>
<td>ID 112</td>
<td>Beginning Drafting for Interiors</td>
<td>3</td>
</tr>
<tr>
<td>ID 113</td>
<td>Interior Design Careers</td>
<td>2</td>
</tr>
<tr>
<td>ID 114</td>
<td>Applied Color and Design Theory</td>
<td>4</td>
</tr>
<tr>
<td>ID 115*</td>
<td>Computer-Aided Design/Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ID 116</td>
<td>Interior Materials and Products</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>24</td>
</tr>
</tbody>
</table>

Level II - Interior Design Assistant Certificate Program

The Interior Design level meets the standards that can lead to employment as a design assistant.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 124A</td>
<td>Architectural Drawing I</td>
<td>4</td>
</tr>
<tr>
<td>ID 121*</td>
<td>Space Planning</td>
<td>3</td>
</tr>
<tr>
<td>ID 122</td>
<td>History of Interior Architecture and Furnishings I</td>
<td>3</td>
</tr>
<tr>
<td>ID 123*</td>
<td>Interior Design Illustration</td>
<td>2</td>
</tr>
<tr>
<td>ID 125</td>
<td>History of Interior Architecture and Furnishings II</td>
<td>3</td>
</tr>
<tr>
<td>ID 126*</td>
<td>Interior Design Studio II</td>
<td>2</td>
</tr>
<tr>
<td>ID 127*</td>
<td>Fundamentals of Lighting</td>
<td>3</td>
</tr>
<tr>
<td>ID 128*</td>
<td>Business and Professional Practice for Interior Design</td>
<td>3</td>
</tr>
<tr>
<td>ID 129*</td>
<td>Interior Design Internship</td>
<td>1</td>
</tr>
<tr>
<td>and CWE 168*/169*</td>
<td>Cooperative Work Experience: Interior Design</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>49</td>
</tr>
</tbody>
</table>

Level III - Interior Design Professional Certificate Program

The Interior Design Professional level meets the educational standards leading to employment and certification as a professional interior designer.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 160</td>
<td>Introduction to Small Business</td>
<td>3</td>
</tr>
<tr>
<td>ID 133*</td>
<td>Rendering and Rapid Visualization</td>
<td>2</td>
</tr>
<tr>
<td>ID 210*</td>
<td>Interior Design Studio III</td>
<td>2</td>
</tr>
<tr>
<td>ID 211</td>
<td>Codes and Specifications for Interior Design</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>49</td>
</tr>
</tbody>
</table>
Associate Degree

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science degree**. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts degree**. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

### Interpreter for the Deaf Certificate Program

This program is designed to prepare the student to serve as an interpreting intern in a variety of settings (e.g., education, human services, legal, and church). Proficiency in sign language is often a valuable adjunct to careers in special education, health sciences, audiology, or therapy. In addition, the skills obtained in the program may be used by persons wishing to obtain conversational ability only.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL 1</td>
<td>American Sign Language I</td>
<td>4</td>
</tr>
<tr>
<td>SL 2</td>
<td>American Sign Language II</td>
<td>4</td>
</tr>
<tr>
<td>SL 3</td>
<td>American Sign Language III</td>
<td>4</td>
</tr>
<tr>
<td>SL 4</td>
<td>American Sign Language IV</td>
<td>4</td>
</tr>
<tr>
<td>SL 101</td>
<td>Deaf People in the Community</td>
<td>3</td>
</tr>
<tr>
<td>SL 102</td>
<td>Implications of Deafness</td>
<td>3</td>
</tr>
<tr>
<td>SL 103</td>
<td>Sign Language Interpreting I</td>
<td>3</td>
</tr>
<tr>
<td>SL 104</td>
<td>Sign Language Interpreting I Lab</td>
<td>1</td>
</tr>
<tr>
<td>SL 105</td>
<td>Sign Language Interpreting II</td>
<td>3</td>
</tr>
<tr>
<td>SL 106</td>
<td>Sign Language Interpreting II Lab</td>
<td>1</td>
</tr>
<tr>
<td>SL 107</td>
<td>Interpreting Sign to Voice</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total     | 33   |

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

### Associate Degree

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science degree**. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts degree**. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

**RECOMMENDED ELECTIVES**: HD 103; SOC 1; SE 142.

---

**Journalism**

The Journalism program curriculum is designed to train persons in the range of skills necessary for work in editorial departments of newspapers, magazines, industrial in-house publications, and public relations programs in business and government.

### Journalism General Certificate Program

This program provides background and experience needed by persons who may be employed as editors, staff writers, editorial and staff reporters, and photographers.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRN 1</td>
<td>Mass Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>JRN 2*</td>
<td>News Writing</td>
<td>3</td>
</tr>
<tr>
<td>JRN 120*</td>
<td>Newspaper Publication</td>
<td>4-4</td>
</tr>
<tr>
<td>JRN 125*</td>
<td>Magazine Journalism</td>
<td>3-3</td>
</tr>
</tbody>
</table>

*Select six units from the Restricted Electives below.

| Total     | 26   |

**Restricted Electives**:

- JRN 103 Copyreading 3
- JRN 104* Print Media Design 3
- JRN 105* Feature Writing 3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Must be taken twice.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science degree**. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts degree**. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Students seeking a certificate in journalism are urged to undertake a broadly based program of academic study: courses in literature, philosophy, foreign language, natural sciences, social sciences, fine arts, and math.

Students intending to pursue a bachelor’s degree in communications or journalism should not expect to receive credit for more than 12 units of journalism courses toward the degree. Refer to the Transfer Major Patterns section of the catalog and to the catalog of the intended college of transfer.

**RECOMMENDED ELECTIVES**: CIM 214A, 214B, 228A, 228B; JRN 130, 181; PHOT 50, 55.

### Writer Journalist Certificate Program

This program provides background and experience needed by persons who want to be employed as freelance writers for newspapers, magazines, and book publishers.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 4*</td>
<td>Fiction Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ENG 104*</td>
<td>Writing Short Stories</td>
<td>3</td>
</tr>
<tr>
<td>ENG 107*</td>
<td>Writing the Fiction and/or Nonfiction Book</td>
<td>or 3</td>
</tr>
</tbody>
</table>

**Certificates and Degrees**

To Total 63

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
Landscape Design Certificate Program

This program is designed to train for careers in landscape design and maintenance with municipal and county parks departments, industrial and commercial firms, and residential construction companies.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 7</td>
<td>Landscape Design</td>
<td>3</td>
</tr>
<tr>
<td>HORT 10</td>
<td>Plant Materials—Annuals/ground covers</td>
<td>3</td>
</tr>
<tr>
<td>HORT 11</td>
<td>Plant Materials—trees and shrubs</td>
<td>3</td>
</tr>
<tr>
<td>HORT 106*</td>
<td>Landscape CADD</td>
<td>3</td>
</tr>
<tr>
<td>HORT 109</td>
<td>Introduction to planting design</td>
<td>3</td>
</tr>
<tr>
<td>HORT 116</td>
<td>Irrigation Systems</td>
<td>3</td>
</tr>
<tr>
<td>HORT 130</td>
<td>Hardscape and construction materials</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 21

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Marine Science Technician Certificate Program

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 19*</td>
<td>Marine Biology</td>
<td>or</td>
</tr>
<tr>
<td>or</td>
<td>ENV 19*</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MS 20*</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MS 100*</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>MST 212</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MST 240</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>MST 241*</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>MST 230*</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>MST 289</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total** 18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Science** degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the **Associate in Arts** degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ACCT 215; BUS 1, 120, 137; HORT 29, 113; SPAN 1.
Mathematics Associate Degree Program

The Associate degree curriculum in Mathematics is designed to provide the transfer student the opportunity to achieve an Associate degree in the student’s areas of specialization. While a baccalaureate degree is recommended preparation for those considering professional careers related to this field, the completion of the suggested program will demonstrate commitment to the field and provide comprehensive preparation for upper-division work and/or attainment of a degree supportive of attempts to gain entry-level employment in a degree-oriented society.

Mathematics major for Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 24*</td>
<td>Elementary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3C*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3B*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>CS 4A*</td>
<td>Introduction to Java for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>CS 1B*</td>
<td>Introduction to Programming</td>
<td></td>
</tr>
<tr>
<td>CS 210</td>
<td>Coastal Navigation</td>
<td>3</td>
</tr>
<tr>
<td>MST 211</td>
<td>Celestial Navigation</td>
<td>3</td>
</tr>
<tr>
<td>MST 212</td>
<td>Sailing, Seamanship, and Boating Safety</td>
<td>3</td>
</tr>
<tr>
<td>MST 214</td>
<td>Advanced Ocean Sailing and Cruising</td>
<td>3</td>
</tr>
<tr>
<td>MST 215</td>
<td>Vessel Command/Organization</td>
<td>3</td>
</tr>
<tr>
<td>MST 216</td>
<td>U.S. Master License and Examination Preparation</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ET 101, 102; DR 100, PHYS 2A.

Medical Assistant

This program prepares students for employment as a medical assistant in a physician’s office or clinic. The curriculum is designed to provide training in administrative (front office), and clinical (back office), medical assisting skills. Instruction is given in basic medical office procedures (including appointment scheduling, billing, and insurance), assisting with examinations, surgical and laboratory procedures (including venipuncture, pharmacology, and injections), electrocardiography, public relations, supervision, and practice-building techniques. In the medical office management option, instruction is given in supervisory responsibilities, practice-building, problem-solving, and legal and ethical issues. An externship experience helps provide the student with the skills necessary to enter this field.

Successful completion of courses will require that a grade of "C" or better be achieved. When a student fails to achieve a "C" or better in any course, the student will be given the opportunity to repeat the failed course once on a space available basis. If a student receives a second grade of less than a "C" in any Medical Assistant course, that student will be dropped from the Medical Assistant Program and will not be eligible for re-entry into the Saddleback College Medical Assistant Program. A student may not enter Clinical Experience (MA 217) until all courses are completed with a grade of "C" or better.

Administrative Medical Assistant Certificate Program

This program prepares the student for employment as an administrative (front office) medical assistant in a physician’s office or clinic. The program is designed to prepare the student to schedule appointments, perform medical reception duties, handle financial matters (including medical collection), manage the medical records, and do insurance billing. The externship in the front office of a physician’s office will help provide the student with the administrative experience to enter the workforce. Students are required to carry malpractice insurance while in MA 217A.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 200</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>MA 210</td>
<td>Introduction to Medical or Laboratory Assisting</td>
<td></td>
</tr>
<tr>
<td>MA 211A</td>
<td>Medical Reception Techniques</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 212A</td>
<td>Medical Office Financial Procedures</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 213A</td>
<td>Medical Records Management</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 214A</td>
<td>Basics in Medical Insurance</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 215A</td>
<td>CPT-4 and ICD-9-CM Medical Insurance Coding</td>
<td>3</td>
</tr>
<tr>
<td>MA 217A*</td>
<td>Medical Assisting Clinical Experience Administrative</td>
<td>3</td>
</tr>
<tr>
<td>MA 260</td>
<td>Computer Applications for Health-Care Personnel</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>22.75</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
**Clinical Medical Assistant Certificate Program**

This program prepares the student for employment as a clinical (back office) medical assistant in a physician's office or clinic. The program is designed to prepare the student to aid the physician by assisting with examinations and treatments, performing venipunctures and collecting other routine laboratory samples, performing routine laboratory procedures, assisting with office surgery, giving medications including by injection, performing electrocardiograms, and practicing medical and surgical asepsis. An externship in the back office of a physician's office will help provide the student with the clinical experience necessary to enter the workforce. Students are required to carry malpractice insurance while in MA 217B.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 222</td>
<td>Cardiopulmonary Resuscitation</td>
<td>.75</td>
</tr>
<tr>
<td>MA 200</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>MA 210</td>
<td>Introduction to Medical or Laboratory Assisting</td>
<td>2</td>
</tr>
<tr>
<td>MA 211B</td>
<td>Physical Examination Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MA 212B</td>
<td>Medical Office Laboratory Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MA 213B</td>
<td>Medical Asepsis and Surgical Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MA 214B</td>
<td>Medication Administration for Medical Assistants</td>
<td>3</td>
</tr>
<tr>
<td>MA 217B*</td>
<td>Medical Assisting Clinical Experience—Clinical</td>
<td>3</td>
</tr>
<tr>
<td>MA 218B</td>
<td>Electrocardiography for the Medical Assistant</td>
<td>2</td>
</tr>
<tr>
<td>MA 260</td>
<td>Computer Applications for Health-Care Personnel</td>
<td>1</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Medical Assistant Certificate Program**

This program prepares the student for employment as a medical assistant in a physician's office or clinic. The curriculum is designed to provide training in both administrative and clinical procedures and practices. Instruction is given in basic medical office procedures, including appointment scheduling, billing, insurance, medical reception, medical records management, surgical and laboratory procedures, venipuncture, pharmacology and injections, electrocardiography, public relations, and practice-building techniques. An externship in a physician's office combining administrative and clinical experience helps provide the student with the clinical experience necessary to enter the workforce. Students are required to carry malpractice insurance while in MA 217C.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 222</td>
<td>Cardiopulmonary Resuscitation</td>
<td>.75</td>
</tr>
<tr>
<td>MA 200</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>MA 210</td>
<td>Introduction to Medical or Laboratory Assisting</td>
<td>2</td>
</tr>
<tr>
<td>MA 211A</td>
<td>Medical Reception Techniques</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 211B</td>
<td>Physical Examination Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MA 212A</td>
<td>Medical Office Financial Procedures</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 212B</td>
<td>Medical Office Laboratory Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MA 213A</td>
<td>Medical Records Management</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 213B</td>
<td>Medical Asepsis and Surgical Procedures</td>
<td>3</td>
</tr>
<tr>
<td>MA 214A</td>
<td>Basics in Medical Insurance</td>
<td>2.5</td>
</tr>
<tr>
<td>MA 214B</td>
<td>Medication Administration for Medical Assistants</td>
<td>3</td>
</tr>
<tr>
<td>MA 215A</td>
<td>CPT-4 and ICD-9-CM Medical Insurance Coding</td>
<td>3</td>
</tr>
<tr>
<td>MA 217C*</td>
<td>Medical Assisting Clinical Experience—Comprehensive</td>
<td>3</td>
</tr>
<tr>
<td>MA 218B</td>
<td>Electrocardiography for the Medical Assistant</td>
<td>2</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Medical Office Management Training Program

The Medical Office Management Training program provides for the development of medical office management skills. Instruction is given in supervisory responsibilities, practice-building, problem-solving, and legal and ethical issues.

Course ID | Title | Units
---|---|---
MA 230 | Medical Office Manager Skills | 3
MA 234 | Legal and Ethical Practices for the Medical Office Manager | 1.5
**Total** | **4.5**

Music Associate Degree Program

The Associate degree curriculum in Music is designed to provide the transfer student the opportunity to achieve an Associate degree in the student’s areas of specialization. While a baccalaureate degree is recommended preparation for those considering professional careers related to this field, the completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment in a degree-oriented society.

Suggested major sequence for the Associate degree:

Course ID | Title | Units
---|---|---
MUS 10* | Harmony I | 5
MUS 50*, 51* or 52* | Applied Music: Instrumental, Keyboard, or Voice | 2
MUS 54 | Beginning Piano | (1)
MUS 59 | Concert Music | .5
**Major Performance Group** Select one course from: MUS 30s, 40*, 41*, 42*, 43*, 44, 46, 47*, 49, 62*, 63, 64*, 66*, 75*, 136*, 139* | 1.2
**Total** | **8.5-10.5**

Spring Semester

Course ID | Title | Units
---|---|---
MUS 11* | Harmony II | 5
MUS 50*, 51* or 52* | Applied Music: Instrumental, Keyboard, or Voice | 2
MUS 54 | Beginning Piano | (1)
MUS 55* | Intermediate Piano | (1)
MUS 59 | Concert Music | .5
**Major Performance Group** Select one course from: MUS 30s, 40*, 41*, 42*, 43*, 44, 46, 47*, 49, 62*, 63, 64*, 66*, 75*, 136*, 139* | 1.2
**Total** | **11.5-15.5**

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Refer to Graduation Requirements for specific information regarding unit, scholarship, residence, and general education requirements.

Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

**Refer to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. Consult with a counselor for assistance in planning a program.

RECOMMENDED ELECTIVES: MUS 1, 14, 15, 16, 17, 20, 23, 24, 27, 28, 29, 46, 58, 60, 61, 65, 80, 81, 82, 90, 116, 178, 179.

Natural Sciences

Associate Degree Programs

(SEE ASTRONOMY, BIOLOGY, CHEMISTRY, GEOLOGY, PHYSICAL SCIENCE, AND PHYSICS.)
Nursing (National League for Nursing Accredited)

PURPOSES OF THE PROGRAM IN NURSING

The purposes of this program in Nursing are to provide the education necessary to develop competent practitioners in nursing and to provide a base for the continuing development of the student as an individual.

ENROLLMENT PROCEDURES

Applications for the National League for Nursing accredited Nursing program are available in the Division of Health and Human Services. Students will be admitted to the Nursing program from a wait list. One half of the number of students accepted for entry into the clinical sequence will be taken directly from the list in the order in which they qualified for placement. One half of the number of students accepted will be chosen by a numerical ranking based upon certificate courses completed and grades earned. In this ranking system, grades will be weighted as follows: A = 5 points, B = 3 points, and C = 1 point. Only grades received in courses required in the Nursing certificate program will be used to calculate the student’s ranking. Students will be admitted from highest ranking to lowest ranking and in order of their placement on the list in case of multiple students on the same rank level.

In order to be eligible to be placed on the wait list, a student must complete one of the science core courses: BIO 11 (Anatomy), BIO 12 (Physiology), or BIO 15 (Microbiology) or equivalents with a grade of “C” or better. All courses except clinical courses may be taken prior to entry into the Nursing program. Prospective students must take matriculation tests before being placed on the wait list. Students must show proof of eligibility for ENG 1A prior to beginning the clinical courses.

Students may use the following resources to obtain information or to seek clarification regarding nursing issues:

California Board of Registered Nursing
400 R Street
Sacramento, CA 95814
916-322-3366

National League for Nursing
61 Broadway Street
New York, NY 10006
800-669-1656

Nursing (National League for Nursing Accredited)

Registered Nurse Certificate Program

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 11*</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIO 12*</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 15*</td>
<td>General Microbiology</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Eligibility for ENG 1A</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>

Eligible for Entry into Nursing Clinical Sequence

<table>
<thead>
<tr>
<th>Semester I</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 101</td>
<td>Fundamentals of Aging</td>
<td>1</td>
</tr>
<tr>
<td>N 160*</td>
<td>Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>N 170*</td>
<td>Nursing Process</td>
<td>8</td>
</tr>
<tr>
<td>N 171*</td>
<td>Mental Health Nursing</td>
<td>3.5</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>14.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester II</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 50</td>
<td>Fundamentals of Nutrition</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>Nutrition for Health Occupations</td>
<td>2</td>
</tr>
<tr>
<td>N 161</td>
<td>Medical-Surgical Nursing</td>
<td>7.25</td>
</tr>
<tr>
<td>PSYC 1</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>12.25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester III</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1A*</td>
<td>Principles of Composition I</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Growth and Development</td>
<td>1.25</td>
</tr>
<tr>
<td>PSYC 7</td>
<td>Developmental Psychology—Childhood and Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>N 173*</td>
<td>Nursing Care of Children and Families</td>
<td>3.5</td>
</tr>
<tr>
<td>N 174*</td>
<td>Women’s Health Nursing</td>
<td>3.25</td>
</tr>
<tr>
<td>N 175*</td>
<td>Nursing in the Community</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>12-13.75</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Semester IV</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>N 176*</td>
<td>Advanced Nursing</td>
<td>7.25</td>
</tr>
<tr>
<td>or</td>
<td>Communication Fundamentals</td>
<td></td>
</tr>
<tr>
<td>SP 5</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>10.25</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Clinical courses.

Selected clinical experiences in various hospitals, clinics, and community agencies are provided throughout the Nursing program.

ELIGIBLE FOR RN LICENSURE EXAM

Total units Registered Nursing Certificate 62

Associate Degree—Nursing Program

Refer to Graduation Requirements for specific information regarding unit, scholarship, residence, and general education requirements.

Licensed Vocational Nurse (LVN) to Registered Nurse (RN) Program

The Nursing program is designed to provide a system by which vocational nurses can continue their education and become eligible to write the State Board Exam. Procedures for application and admission packets are available in the offices of the Division of Health Sciences and Human Services and Counseling Services. Students are admitted from a wait list.

Admission of VNs to the Nursing program is on a space-available basis. To be placed on the wait list requires:

1. Proof of satisfactory completion of an accredited VN program or a current California VN license.
2. Completion of all the core science courses: BIO 11, 12, 15, or equivalent, with a grade of “C” or better.
3. Completion of N 162 with a grade of “C” or better.
4. Completion of matriculation testing.
5. Attendance at “LVN to RN” guidance session.
6. Eligibility for ENG 1A.

Consideration will be given to each applicant’s prior education in determining placement into the program. All classes are challenging. Every required prerequisite and core class must be completed with a “C” or better.
**Required Prerequisites:**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 11*</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIO 12*</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 15*</td>
<td>General Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>N 162</td>
<td>Successful Transition to Professional Nursing</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>14.5</td>
</tr>
</tbody>
</table>

**Required Core Classes:**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 1A*</td>
<td>Principles of Composition I</td>
<td>3</td>
</tr>
<tr>
<td>GER 101</td>
<td>Fundamentals of Aging</td>
<td>1</td>
</tr>
<tr>
<td>N 171†</td>
<td>Mental Health Nursing</td>
<td>3.5</td>
</tr>
<tr>
<td>N 173†</td>
<td>Nursing Care of Children and Families</td>
<td>3.5</td>
</tr>
<tr>
<td>N 174†</td>
<td>Women's Health Nursing</td>
<td>3.25</td>
</tr>
<tr>
<td>N 175†</td>
<td>Nursing in the Community</td>
<td>1</td>
</tr>
<tr>
<td>N 176†</td>
<td>Advanced Nursing</td>
<td>7.25</td>
</tr>
<tr>
<td>PSYC 1</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SP 1</td>
<td>Communication Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 5</td>
<td>Interpersonal Communication</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>28.5</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Clinical courses.

---

**Licensed Vocational Nurse (LVN) to Registered Nurse (RN) 30-Unit Option**

**BRN Rules and Regulations**

**Section 1429—Preparation Required for Licensed Vocational Nurses**

(a) An applicant who is licensed in California as a vocational nurse is eligible to apply for licensure as a registered nurse if such applicant has successfully completed the courses prescribed below and meets all the other requirements set forth in Section 2736 of the code. Such applicant shall submit evidence to the board, including a transcript, of successful completion of the requirements set forth in subsection (c) and of successful completion or challenge of courses in physiology and microbiology comparable to such courses required for licensure as a registered nurse.

(b) The school shall offer objective counseling of this option and evaluate each licensed vocational nurse applicant for admission to its registered nursing program on an individual basis. A school's determination of the prerequisite courses required of a licensed vocational nurse applicant shall be based on an analysis of each applicant's academic deficiencies, irrespective of the time such courses were taken.

(c) The additional education required of licensed vocational nurse applicants shall not exceed a maximum of thirty (30) semester or forty-five (45) quarter units. Courses required for vocational nurse licensure do not count toward fulfillment of the additional education requirement. However, other courses comparable to those required for licensure as a registered nurse, as specified in Section 1426, may be counted toward fulfillment of the additional education requirement.

Nursing courses shall be taken in an accredited school and shall be beyond courses equivalent to the first year of professional nursing courses. The nursing content shall include nursing intervention in acute, preventive, remedial, supportive, rehabilitative, and teaching aspects of nursing. Theory and courses with concurrent clinical practice shall include advanced medical-surgical, mental health, psychiatric nursing, and geriatric nursing. The nursing content shall include the basic standards for competent performance prescribed in Section 1443.5 of these regulations.

This option is available to all LVNs entering the Saddleback College Nursing program. Persons electing this 30-unit option will be eligible to write the State board exam but will not be graduates of the Saddleback College Nursing program.

Admission of VN's to the Nursing program is on a space-available basis. To be placed on the wait list requires:

1. Proof of satisfactory completion of an accredited VN program or a current California VN license.
2. Completion of BIO 12, BIO 15, and N 162 with grades of "C" or better.
3. Attendance at "LVN to RN" guidance session.

Consideration will be given to each applicant's prior education in determining placement into the program. All classes are challenging. Every required prerequisite and core class must be completed with a "C" or better.

**Courses Required for the 30-Unit Option**

**Required Prerequisites:**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 12*</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 15*</td>
<td>General Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>N 162</td>
<td>Successful Transition to Professional Nursing</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Fulfills the Management & Leadership and Advanced Medical-Surgical requirement.

**Diploma School Registered Nursing Program**

This program is designed for the RN graduate of a hospital diploma program. Completion of the program listed below and completion of the graduation requirements will qualify the student for an **Associate in Science Degree in Nursing**.

Upon completion of the following courses, full credit will be awarded in the area of Nursing for holders of current California Registered Nursing Licenses. A minimum of 12 units must be earned at Saddleback College.

**Course ID**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1A†</td>
<td>Principles of Composition I</td>
<td>3</td>
</tr>
<tr>
<td>GER 101†</td>
<td>Fundamentals of Aging</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 1</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SP 1</td>
<td>Communication Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP 5</td>
<td>Interpersonal Communication</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>
Nutrition Certificate Program

The Nutrition program prepares students for a wide variety of employment opportunities involving the applications of fundamentals of normal nutrition. Employment possibilities include: Public agencies; day-care centers for the young and the elderly, food co-ops, recreation work, pregnancy clinics; education (such as pre-school and elementary schools); health clubs; gym and figure salons; health food stores and nutritional supplement sales; and drug abuse clinics. The program offers coursework for professional improvement, and some courses can be utilized as transfer courses for students pursuing a bachelor's degree. Refer to the Family and Consumer Sciences/Home Economics transfer section of the catalog, as well as the catalog of the intended college of transfer.

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Oceanography Associate Degree Program

The Oceanography Associate Degree program is designed to provide transfer oceanography, marine geology, marine biology, earth science, or related majors, as well as liberal arts majors, the opportunity to obtain an Associate degree in the student's area of interest. While a baccalaureate degree and graduate study are recommended for those considering professional careers related to oceanography, completion of the suggested program would provide comprehensive preparation for upper-division work, demonstrate commitment to the field, and attainment of a degree supportive of attempts to gain entry-level employment.

Suggested major sequence for the Associate in Science degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A*</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B*</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEOL 1</td>
<td>Introduction to Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3A*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MS 20*</td>
<td>Introduction to Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3B*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3C*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4A*</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4B*</td>
<td>General Physics</td>
<td>4</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Science Degree

Completion of all courses listed above and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements. Refer also to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Consult with a counselor for assistance in planning a program.

RECOMMENDED ELECTIVES: BIO 1A or 20, 1B, 1C, 19; GEOL 2, 5, 6, 20; MS 2; PHYS 4C
**Office & Computer Skills Training**

An introduction to office procedures and basic skills needed for employment in today's office environment. Areas of study include: office environment, organizational structure, computer skills, business math, filing, and records management.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIM 213A</td>
<td>Office Skills—Office Procedures</td>
<td>2.5</td>
</tr>
<tr>
<td>CIM 213B</td>
<td>Office Skills—Keyboarding</td>
<td>.5</td>
</tr>
<tr>
<td>CIM 213C</td>
<td>Office Skills—Computer Concepts</td>
<td>.5</td>
</tr>
<tr>
<td>CIM 213D</td>
<td>Office Skills—Windows</td>
<td>.5</td>
</tr>
<tr>
<td>CIM 213E</td>
<td>Office Skills—Word Processing (Word)</td>
<td>.5</td>
</tr>
<tr>
<td>CIM 213F</td>
<td>Office Skills—Spreadsheets (Excel)</td>
<td>.5</td>
</tr>
<tr>
<td>CIM 213G</td>
<td>Office Skills—Desktop Presentation for Business (PowerPoint)</td>
<td>.5</td>
</tr>
<tr>
<td>CIM 213H</td>
<td>Office Skills—Database (Access)</td>
<td>.5</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**Paramedic Certificate Program**

The Paramedic program is designed to prepare the student for licensure as a Paramedic. It is an intense, full-time program consisting of lecture, skills lab, clinical practice, and field internship. Students must possess a current CPR-Health Care Provider Card and are also required to have a current EMT-1 certification and one-year recent work experience. Students must have or purchase malpractice insurance prior to taking PM 230.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM 220*</td>
<td>Paramedicine Theory</td>
<td>14</td>
</tr>
<tr>
<td>PM 230*</td>
<td>Paramedical Clinical Experience</td>
<td>7.5</td>
</tr>
<tr>
<td>PM 240*</td>
<td>Paramedic Field Internship</td>
<td>11.5</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: Four college semesters, or the equivalent, of a foreign language are strongly recommended. Art history, English literature, history, interdisciplinary studies courses, MATH 9, and psychology or other social sciences are also recommended.

**Philosophy Associate Degree Program**

The Associate degree curriculum in Philosophy is designed to provide the student with the knowledge necessary to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended preparation for those considering the philosophy major, the completion of the suggested program will demonstrate the student's commitment to the field and provide comprehensive preparation for upper-division work and/or attainment of a degree supportive of attempts to gain entry-level employment in a degree-oriented society.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 240*</td>
<td>Phlebotomist/Laboratory Assistant Procedures</td>
<td>4</td>
</tr>
<tr>
<td>CWE 168*</td>
<td>Cooperative Work Experience: Health Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>
Photography Associate Degree Program

The curriculum offerings are designed to provide the student with an Associate degree in Photography. The studies involve both technical and aesthetic concerns in photographic communication. While advanced training is recommended for those considering professional careers in the field, completion of the suggested program will indicate a firm commitment. The Associate degree will also complement other related fields, such as art, journalism, or industrial arts and/or may support attempts to gain entry-level employment.

Major requirements for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 40</td>
<td>Two-Dimensional Design</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 50</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 55*</td>
<td>Intermediate Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 158</td>
<td>Introduction to Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 51*</td>
<td>Introduction to Digital Imaging</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 156*</td>
<td>Advanced Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 160*</td>
<td>The Art of Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>PHOT 189*</td>
<td>Special Topics: Photography</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>or</td>
<td></td>
</tr>
<tr>
<td>PHOT 190</td>
<td>Special Problems in Photography</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 27

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ART 80, 189; GC 102; JRN 1, 181.

Physical Education Associate Degree Program

The Physical Education curriculum is designed to provide the opportunity to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended preparation for those considering professional careers in this field, the completion of this suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment in a degree-oriented society.

Suggested Physical Education major for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLTH 1</td>
<td>Health Education</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HLTH 3</td>
<td>Women’s Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>HLTH 2</td>
<td>Standard First Aid</td>
<td>1.5</td>
</tr>
<tr>
<td>HLTH 104*</td>
<td>Advanced First Aid</td>
<td>1.5</td>
</tr>
<tr>
<td>PPE 1</td>
<td>Introduction to Physical Education and Athletics</td>
<td>3</td>
</tr>
<tr>
<td>and</td>
<td>A minimum of three units in Training and Theory selected from the following:</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>PPE 3,4,</td>
<td>3</td>
</tr>
</tbody>
</table>

A minimum of six units in Physical Education activity skills courses from at least 4 of the following areas:
(1) Fitness,
(2) Individual Sports,
(3) Aquatics, (4) Dance,
(5) Team Sports,
(6) Combative Skills.

NOTE: Intercolligate Athletics may be applied in appropriate areas.

Total 18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: BIO 11, 20; PE 107; PPE 101; PSYC 1; REC 105; SP 1 or 5.

Physical Science

Physical Science—General Emphasis

Select a minimum of 20 units of courses intended for Physical Science majors, depending upon career goals and transfer requirements. A petition for approval of special Associate degree majors is available in the Counseling Services office.

Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Physics Associate Degree Program

The Physics Associate Degree program is designed to provide the transfer Physics major the opportunity to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended for those considering professional careers related to Physics, completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment.

Suggested major for the Associate in Science degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1A</td>
<td>Introduction to Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3A*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3B*</td>
<td>Analytic Geometry and Calculus</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4A*</td>
<td>General Physics</td>
<td>4</td>
</tr>
</tbody>
</table>
Minimum of 12 units must be completed at Saddleback College.

RECOMMENDED ELECTIVES: CHEM 1A, 1B

Political Science
Associate Degree Program

The Political Science Associate Degree program is designed to provide the transfer Political Science or Public Administration major the opportunity to achieve an Associate degree in the student's area of specialization. While a baccalaureate degree is recommended for those considering professional careers related to Political Science, completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment.

Suggested major for the Associate degree:

It is recommended that PS 1 be taken prior to or concurrently with a combination of courses to be selected from those listed below.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2*</td>
<td>Principles (Macro)</td>
<td>3</td>
</tr>
<tr>
<td>PS 1</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>PS 4</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>PS 11</td>
<td>World Political Economies</td>
<td>3</td>
</tr>
<tr>
<td>PS 12</td>
<td>Comparative Politics and Government</td>
<td>3</td>
</tr>
<tr>
<td>PS 14</td>
<td>International Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Psychiatric Technician Certificate Program

The Psychiatric Technician program is designed to prepare students to work with clients who are mentally disordered or developmentally disabled. Students will be prepared to write the State board examination for licensure as a Psychiatric Technician. In keeping with the career-ladder philosophy of the Health Sciences programs, students completing courses in this program who may later desire to enter the Nursing program will be evaluated individually for credit for previous education and experience. Applications for the Psychiatric Technician program are available in the Health Sciences and Human Services division office and will be accepted at any time.

Students planning to enter the Psychiatric Technician program may take as many of the nonclinical courses as they can prior to entry. The Psychiatric Technician program is a very course-intensive program. Having some or all of these completed prior to entry will lighten the course workload and will be to the student's advantage. Prospective students should seek advisement regarding course sequence from the Division of Health Sciences and Human Services.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 161</td>
<td>Nutrition for Health Occupations</td>
<td>2</td>
</tr>
<tr>
<td>GER 101</td>
<td>Fundamentals of Aging</td>
<td>1.5</td>
</tr>
<tr>
<td>HSC 101</td>
<td>Health Core</td>
<td>3</td>
</tr>
<tr>
<td>HSC 222</td>
<td>Basic Life Support/CPR for Health Care Providers</td>
<td>.75</td>
</tr>
<tr>
<td>HS 120</td>
<td>Human Development in the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>HS 140</td>
<td>Group Leadership and Group Process</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 106*</td>
<td>Behavior Modification</td>
<td>3</td>
</tr>
<tr>
<td>PT 100*</td>
<td>Principles of Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>PT 102*</td>
<td>Pharmacy in Health Occupations</td>
<td>1.5</td>
</tr>
<tr>
<td>PT 103</td>
<td>Psychodynamics of Patient Care</td>
<td>1</td>
</tr>
<tr>
<td>PT 201</td>
<td>Introduction to the Developmentally Disabled Person</td>
<td>2</td>
</tr>
<tr>
<td>PT 205*</td>
<td>Care of the Person with Developmental Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>PT 216†</td>
<td>Care of the Moderately Developmentally Disabled</td>
<td>4</td>
</tr>
<tr>
<td>PT 217†</td>
<td>Care of the Severely Developmentally Disabled</td>
<td>4.5</td>
</tr>
<tr>
<td>PT 218†</td>
<td>Care of the Mentally III</td>
<td>4</td>
</tr>
<tr>
<td>PT 219†</td>
<td>Care of the Mentally Ill in the Community</td>
<td>2.5</td>
</tr>
<tr>
<td>PT 221†</td>
<td>Fundamentals of Nursing for Psychiatric Technicians</td>
<td>6.5</td>
</tr>
<tr>
<td>PT 222†</td>
<td>Medical-Surgical Nursing for Psychiatric Technicians</td>
<td>7</td>
</tr>
<tr>
<td>PT 228*</td>
<td>Neuropsychiatric Concepts</td>
<td>5</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>57.25</td>
</tr>
</tbody>
</table>

Eligible for Psychiatric Technician Licensure Exam 57.25

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Clinical course.
Approximate cost for uniforms is $75; for malpractice insurance, $33 per year; and books are $500. A complete medical examination and immunizations are required prior to beginning the clinical courses and are done at the student’s expense.

**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

**RECOMMENDED ELECTIVES:** ENG 220; HS 100, 130, 170, 171, 172, 173, 174.

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**Psychology Associate Degree Program**

The Psychology Associate Degree program is designed to provide the transfer Psychology/Human Services major the opportunity to achieve an Associate degree in the student’s area of specialization.

While a baccalaureate degree or higher is recommended for those considering professional careers related to Psychology, completion of the suggested program will demonstrate commitment to the field and provide comprehensive preparation for upper-division work and/or attainment of a degree supportive of attempts to gain entry-level employment.

Suggested major sequence for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 10*</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 2*</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3*</td>
<td>Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select eight units from the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Recommended Electives below.</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

---

**Electronic Media Certificate Program**

The certificate program in Radio, Television, Film, and Electronic Media prepares the student in all areas relating to the understanding and use of electronic media, with particular emphasis on hands-on experience. Employment possibilities include: producing, directing, on-air talent, editing, and numerous other vocational opportunities. This program provides and encourages both field and studio work in the student’s area of specialty (Radio or Television). Coursework includes participation in internships at various stations and facilities.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 1</td>
<td>Mass Media and Society</td>
<td>3</td>
</tr>
<tr>
<td>CA 30</td>
<td>The History and Appreciation of Film</td>
<td>3</td>
</tr>
<tr>
<td>CA 31</td>
<td>Film Production I</td>
<td>3</td>
</tr>
<tr>
<td>CA 40*</td>
<td>Film and Television Scriptwriting I</td>
<td>3</td>
</tr>
<tr>
<td>CA 110</td>
<td>Radio Production</td>
<td>3</td>
</tr>
<tr>
<td>CA 124</td>
<td>Television Production I</td>
<td>4</td>
</tr>
<tr>
<td>CA 128</td>
<td>Radio/TV News and Public Affairs</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select ten units from one</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Specialty Area below.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

**Specialty Area 1—Television**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 29</td>
<td>Women in Film and Television</td>
<td>3</td>
</tr>
<tr>
<td>CA 42*</td>
<td>Television and Film Directing</td>
<td>3</td>
</tr>
<tr>
<td>CA 125*</td>
<td>Television Production II</td>
<td>4</td>
</tr>
<tr>
<td>CA 126*</td>
<td>Television Production III</td>
<td>2</td>
</tr>
<tr>
<td>CA 127*</td>
<td>Video Location Production</td>
<td>2</td>
</tr>
<tr>
<td>CA 131*</td>
<td>Non-Linear Editing</td>
<td>3</td>
</tr>
<tr>
<td>CA 141</td>
<td>Radio and TV Announcing and Voice-Over</td>
<td>3</td>
</tr>
<tr>
<td>CA 142*</td>
<td>Film and Television Scriptwriting II</td>
<td>3</td>
</tr>
<tr>
<td>CA 233*+</td>
<td>Radio Television Internship/Practicum</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>and</td>
<td></td>
</tr>
<tr>
<td>CWE 168*+</td>
<td>Cooperative Work Experience:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Radio/Television</td>
<td>1</td>
</tr>
</tbody>
</table>

**Specialty Area 2—Radio**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 111*</td>
<td>Advanced Audio In Media</td>
<td>3</td>
</tr>
<tr>
<td>CA 113*</td>
<td>Radio Broadcasting</td>
<td>3</td>
</tr>
<tr>
<td>CA 115*</td>
<td>Advanced Radio Broadcasting</td>
<td>2</td>
</tr>
<tr>
<td>CA/MUS 118</td>
<td>Sound Recording — Theory and Practice</td>
<td>4</td>
</tr>
<tr>
<td>CA 141</td>
<td>Radio and TV Announcing</td>
<td>3</td>
</tr>
<tr>
<td>CA 233*+</td>
<td>Radio/Television/Film Internship</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>and</td>
<td></td>
</tr>
<tr>
<td>CWE 168*+</td>
<td>Cooperative Work Experience:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Radio/Television</td>
<td>1</td>
</tr>
</tbody>
</table>

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

†Must be taken concurrently

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**Associate Degree**

**Associate in Science Degree**

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

**Associate in Arts Degree**

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.


RECOMMENDED ELECTIVES: CA 32, 41, 42, 111, 114, 116, 117, 125, 127, 144, 149, 189; PHOT 50; SP 5, 35; TA 1.

**Real Estate**

The Real Estate programs are designed to educate the student to become an effective Real Estate professional. The three programs are: Real Estate Appraisal, Real Estate Escrow, Real Estate Sales/Broker.

### Real Estate Appraisal Certificate Program

The Real Estate Appraisal program is designed to prepare students with educational courses needed for positions within the Real Estate Appraisal profession and to meet the California State requirements under the Department of Business, Transportation and Housing Agency for the real estate licenses of Stata Licensed Real Estate Property Appraiser.

REAL ESTATE APPRAISAL LICENSE and/or CERTIFICATE: Please contact the California Office of Real Estate Appraisers.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE 176A*</td>
<td>Real Estate Appraisal I</td>
<td>3</td>
</tr>
<tr>
<td>RE 176B*</td>
<td>Real Estate Appraisal II</td>
<td>3</td>
</tr>
<tr>
<td>RE 178*</td>
<td>Real Estate Economics</td>
<td>3</td>
</tr>
<tr>
<td>RE 200</td>
<td>Uniform Standards of Professional</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Appraisal Practice (USPAP)</td>
<td>1.5</td>
</tr>
<tr>
<td>RE 201*</td>
<td>Practical Residential Appraisal Techniques</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Courses listed below</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total** 19.5

Specialty Courses:

- BUS 12 Business Law 3
- BUS 104* Business Communication 3
- CIM 120 Computer Literacy 3
- RE 170 Real Estate Principles 3
- RE 174* Legal Aspects of Real Estate 3
- RE 175* Real Estate Finance 3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

### Associate Degree

#### Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

#### Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: (Select two courses to meet the Educational Achievement Award requirements of the California Escrow Association): ACCT 1A 214, 215; BUS 12, 104, 125, 160; RE 176A, 178.

### Real Estate Escrow Certificate Program

The Escrow program is designed to educate the student to become an effective Escrow professional. Activities related to this field are escrow principles, practice, and problems. Associated courses in real estate, management, and office procedures are provided.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE 170</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>RE 172*</td>
<td>Real Estate Practice</td>
<td>3</td>
</tr>
<tr>
<td>RE 174*</td>
<td>Legal Aspects of Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>RE 175*</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>RE 190</td>
<td>Escrow I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

### RE 190 Escrow I 3

RE 190: Escrow I 3

### Real Estate Sales/Broker Certificate Program

This Real Estate program is designed to educate the student to become an effective Real Estate professional. Activities related to the program are real estate practice, law, appraisal, finance, computations, escrow, investment, exchanging, and taxation.

REAL ESTATE SALESPERSON LICENSE: RE 170 is required prior to State examination. Two additional electives must be completed within 18 months after passing the State exam. Electives list: ACCT 215, BUS 12, 122, 172, 174, 175, 176A, 178, 190, 195, 280. Please check with the California Department of Real Estate for any changes.

REAL ESTATE BROKER LICENSE: Five courses are required: RE 172, 174, 175, 176A, and 178 or ACCT 215. In addition, three more courses must be taken from the following list: BUS 12, RE 122, 170, 176B, 190, 195, 280. Please check with the California Department of Real Estate for any changes. The 30-unit Certificate meets the Broker License examination course requirements.

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE 170</td>
<td>Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>RE 172*</td>
<td>Real Estate Practice</td>
<td>3</td>
</tr>
<tr>
<td>RE 174*</td>
<td>Legal Aspects of Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>RE 175*</td>
<td>Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>RE 176A*</td>
<td>Real Estate Appraisal I</td>
<td>3</td>
</tr>
<tr>
<td>RE 178</td>
<td>Real Estate Economics</td>
<td>3</td>
</tr>
<tr>
<td>or 179</td>
<td>General Accounting</td>
<td></td>
</tr>
<tr>
<td>or 180</td>
<td>Select nine units from Restricted Electives</td>
<td>9</td>
</tr>
<tr>
<td>ACCT 215</td>
<td>Select three units from Specialty Courses</td>
<td>3-4.5</td>
</tr>
</tbody>
</table>

**Total** 30-31.5

### Restricted Electives:

- BUS 12 Business Law 3
- RE 122* Real Estate Office Administration 3
- RE 176B* Real Estate Appraisal II 3
- RE 190 Escrow I 3
Sociology Associate Degree Program

Suggested major for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2*</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 10*</td>
<td>Introduction to Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOC 10</td>
<td>Introduction to Marriage and the Family</td>
<td>3</td>
</tr>
<tr>
<td>SOC 30*</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 21

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Speech/Communication Associate Degree Program

Suggested major sequence for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 1</td>
<td>Communication Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(meets AA Speech requirements)</td>
<td></td>
</tr>
<tr>
<td>SP 2*</td>
<td>Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>SP 3*</td>
<td>Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>SP 5</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>SP 30</td>
<td>Introduction to Oral Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>SP 35</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 18

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ANTH/SP 20; SP 8; 106.

Technology Associate Degree Program—General Technology

The General Technology Associate Degree is offered to provide transfer majors the opportunity to achieve an Associate degree using occupational and vocational courses, and to afford maximum flexibility to students in designing a program which may lead to employment. While completion of a baccalaureate degree or a certificate program is recommended for those considering careers in technological fields, completion of an Associate degree will provide more comprehensive preparation for upper-division work and/or attainment of a degree supportive of attempts to gain entry-level employment. In some cases, students may further their progress on a career ladder through attainment of a degree representing a combination of coursework from a variety of technology and applied science disciplines.

Suggested major courses for the Associate degree:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 124A</td>
<td>Architectural Drawing I</td>
<td>4</td>
</tr>
<tr>
<td>or DR 100</td>
<td>Fundamentals of Mechanical Drafting</td>
<td>3</td>
</tr>
<tr>
<td>or AUTO 100</td>
<td>Automotive Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ENV 1</td>
<td>Introduction to Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>ET 101</td>
<td>Survey of Electronics</td>
<td>3</td>
</tr>
<tr>
<td>or ET 133</td>
<td>DC and AC Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>GC 101</td>
<td>Introduction to Graphic Communication</td>
<td>3</td>
</tr>
<tr>
<td>HORT 20</td>
<td>Introduction to Horticultural Science</td>
<td>4</td>
</tr>
</tbody>
</table>

Total 20-21

Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Alternative major patterns will vary depending upon the student’s career or educational objectives. The student who has demonstrated breadth in general technology by completion of a minimum of 20 units, in addition to those required to fulfill general education requirements, of courses appropriate for majors offered in the Division of Advanced Technology and Applied Science, or other areas such as industrial technology, industrial arts, fire protection administration and technology, or vocational education may receive an Associate degree in general technology.

RECOMMENDED ELECTIVES: Also refer to the Transfer Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for either the Associate degree major or as electives, should reflect requirements of the college to which the student plans to transfer. Consult with a counselor or faculty member for assistance in planning a program.

**Theatre Arts Associate Degree Program**

The Theatre Arts Associate Degree curriculum is designed to provide the transfer student the opportunity to achieve an Associate degree in the student’s area of specialization. While a baccalaureate degree is recommended preparation for those considering professional careers related to this field, the completion of the suggested program will demonstrate commitment to the field, provide comprehensive preparation for upper-division work, and/or attainment of a degree supportive of attempts to gain entry-level employment in a degree-oriented society.

Possible entry-level career opportunities for students completing this program include various stagecraft positions in local repertory theatres and the entertainment industry.

Sample Course of Study

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year—Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA 1</td>
<td>Acting</td>
<td>3</td>
</tr>
<tr>
<td>TA 15, 16, 17, 18 or 19</td>
<td>Rehearsal and Performance (Tech. and/or Acting)</td>
<td>1-2</td>
</tr>
<tr>
<td>TA 35</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
<tr>
<td>TA 40</td>
<td>Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>TA 43</td>
<td>Stage Make-up</td>
<td>1</td>
</tr>
<tr>
<td>Spring Semester—Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA 2*</td>
<td>Beginning Scene Study</td>
<td>3</td>
</tr>
<tr>
<td>TA 15, 16, 17, 18 or 19</td>
<td>Rehearsal and Performance (Tech. and/or Acting)</td>
<td>1-2</td>
</tr>
<tr>
<td>TA 42</td>
<td>Costume Design</td>
<td>3</td>
</tr>
<tr>
<td>Second Year—Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA 3*</td>
<td>Advanced Scene Study</td>
<td>3</td>
</tr>
<tr>
<td>TA 15, 16, 17, 18 or 19</td>
<td>Rehearsal and Performance (Tech. and/or Acting)</td>
<td>1-2</td>
</tr>
<tr>
<td>TA 25</td>
<td>Theatre History: Primitive to Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>TA 41</td>
<td>Stage Lighting</td>
<td>3</td>
</tr>
<tr>
<td>Spring Semester—Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TA 4* or 5*</td>
<td>Acting Styles: Classical or Contemporary</td>
<td>3</td>
</tr>
<tr>
<td>TA 15, 16, 17, 18 or 19</td>
<td>Rehearsal and Performance (Tech. and/or Acting)</td>
<td>1-2</td>
</tr>
<tr>
<td>TA 26</td>
<td>Theatre History: Renaissance to Contemporary</td>
<td>3</td>
</tr>
<tr>
<td>TA 45*</td>
<td>Scene Design</td>
<td>3</td>
</tr>
<tr>
<td>TA 142</td>
<td>Theatre Production</td>
<td>1</td>
</tr>
</tbody>
</table>

Total 39-43

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Refer to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. Consult with a counselor for assistance in planning a program.

RECOMMENDED ELECTIVES: TA 4, 5, 6, 7, 10, 11, 12, 20, 22, 30, 31, 32, 44, 108, 110, 113, 114, 130.
Travel Agency Operation
Certificate Program

The Travel Agency Operation program is designed to prepare students for careers in the travel agency industry. The program stresses the following: ticketing and reservations, major tourist areas and resorts, fares and routes, tour promotion, and planning. The program covers all aspects of travel including air, cruise ships, rail, and car.

Course ID Title Units
TM 250 Domestic Airline Ticketing and Reservations 3
TM 251† International Ticketing and Reservations 3
TM 252 World Destinations/Resorts—Western Hemisphere 3
TM 253 World Destinations/Resorts—Europe 3
TM 254 World Destinations/Resorts—Pacific, Asia, Africa 3
TM 255 Travel Sales and Marketing 3
TM 257 Cruises and Cruising 1.5
TM 258 Tours 1.5
TM 259† Cooperative Work Experience: Travel Agency Operation 2
CWE 168*/169† Cooperative Work Experience: Travel Agency Operation 1

Total 24

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.
†Recommended to be taken in last semester of program.

Associate Degree

Associate in Science Degree

Completion of the certificate program and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Science degree. A minimum of 12 units must be completed at Saddleback College.

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

RECOMMENDED ELECTIVES: ACCT 215; BUS 1, 102, 125, 135, 137, 138; CIM 121AB.

Women’s and Gender Studies

Associate Degree Program

Women’s and Gender Studies is an interdisciplinary program that invites students to use the categories of gender, race, class, ethnicity, age, and sexuality to understand the historical and contemporary experiences of women and men. The curriculum is interdisciplinary in scope, providing opportunities for relevant general education courses for the Associate degree or transfer programs; or, when courses are combined, affords the opportunity to complete an Associate degree major. Completion of an Associate degree major in Women’s and Gender Studies will demonstrate scholarly inquiry, as well as commitment to the field, especially for those who expect to attain advanced degrees in fields leading to service to women in the professions and the community.

Suggested major for the Associate degree: A minimum of 20 units must be completed. Courses applying to the major may not also be used to meet general education requirements.

CORE REQUIREMENT:

Course ID Title Units
WS 10 Introduction to Women’s Studies 3
ART 21 Women and Art 3
CA 29 Women in Film and Television 3
ENG 46* Images of Women in Literature 3
ENG 50* Women Authors 3
HIST 21 Women in United States History: A Multicultural Perspective 3
HLTH 3 Women’s Health Issues 3
MUS 29 Women, Music, and Society 3
PSYC 21 Psychology of Women 3
SOC 21 Women in Contemporary Society 3
SP 8 Gender Communication 3
WS 10 Introduction to Women’s Studies 3
WS 21 Ethnic Women’s Issues in Contemporary American Society 3
WS 40 Women and Religion: In Search of the Goddess 3
WS 120 Women and Careers 3

*Course has a prerequisite, corequisite, limitation, or recommended preparation; see course description.

Associate Degree

Associate in Arts Degree

Completion of 20 units in the major and a minimum of 60 units including the general education requirements with an overall GPA of 2.0 qualifies the student for the Associate in Arts degree. A minimum of 12 units must be completed at Saddleback College.

Refer to the Graduation Requirements for the specific course list meeting general education requirements.

Refer to the Transfer Major Patterns section of this catalog or to the catalog of the intended college of transfer. Courses selected to fulfill requirements for the Associate degree should reflect requirements of the college to which the student plans to transfer. Consult with a counselor for assistance in planning a program.
CALIFORNIA FOUR-YEAR PUBLIC UNIVERSITIES

University of California – 8 Campuses*
1 University of California, Berkeley (1868) • (510) 642-6000
   Semester Enrollment 31,267 • www.berkeley.edu
2 University of California, Davis (1908) • (530) 752-1011
   Quarter Enrollment 25,312 • www.ucdavis.edu
3 University of California, Irvine (1965) • (949) 824-5011
   Quarter Enrollment 19,602 • wwwuci.edu
4 University of California, Los Angeles (1919) • (310) 825-4321
   Quarter Enrollment 35,210 • www.ucla.edu
5 University of California, Riverside (1954) • (909) 787-1012
   Quarter Enrollment 13,063 • www.ucr.edu
6 University of California, San Diego (1964) • (858) 534-2230
   Quarter Enrollment 19,269 • www.ucsd.edu
7 University of California, Santa Barbara (1944) • (805) 893-8000
   Quarter Enrollment 19,962 • www.ucsb.edu
8 University of California, Santa Cruz (1965) • (831) 459-0111
   Quarter Enrollment 12,144 • www.ucsc.edu
* A ninth campus, UC San Francisco, is a graduate/professional
  institution requiring pre-professional preparation or graduate
  standing for admission.

* A tenth campus, UC Merced, is scheduled to open in Fall 2004.

California State University – 23 Campuses
1 California Maritime Academy (1929) • (800) 561-1945
   Semester Enrollment 606 • www.csustrn.edu
2 California Polytechnic State University, San Luis Obispo (1901)
   (805) 756-2311 • Quarter Enrollment 18,079 • www.calpoly.edu
3 California State Polytechnic University, Pomona (1938)
   (909) 869-2000 • Quarter Enrollment 19,041 • www.csupomona.edu
4 California State University, Bakersfield (1965)
   (661) 664-3036 • Quarter Enrollment 7,050 • www.csusb.edu
5 California State University, Channel Islands (2002)
   (805) 437-8400 • Opening Fall 2002 • www.csuci.edu
6 California State University, Chico (1887) • (530) 898-6321
   Semester Enrollment 16,704 • www.csum.edu
7 California State University, Dominguez Hills (1960)
   (310) 243-3696 • Semester Enrollment 12,871 • www.csdh.edu
8 California State University, Fresno (1911) • (559) 278-2261
   Semester Enrollment 20,007 • www.csufresno.edu
9 California State University, Fullerton (1957) • (714) 278-2300
   Semester Enrollment 30,357 • www.fullerton.edu
10 California State University, Hayward (1957) • (510) 885-2624
   Quarter Enrollment 13,240 • www.csum.edu
11 California State University, Long Beach (1949)
   (562) 985-471 • Semester Enrollment 33,259 • www.csulb.edu
12 California State University, Los Angeles (1947)
   (323) 343-3901 • Quarter Enrollment 20,675 • www.calstatela.edu
13 California State University, Monterey Bay (1995)
   (831) 582-3518 • Semester Enrollment 3,020 • www.montrey.edu
14 California State University, Northridge (1958)
   (818) 677-3700 • Semester Enrollment 31,448 • www.csun.edu
15 California State University, Sacramento (1947)
   (916) 278-3901 • Semester Enrollment 26,923 • www.csus.edu
16 California State University, San Bernardino (1960)
   (909) 880-5200 • Quarter Enrollment 15,985 • www.csusb.edu
17 California State University, San Marcos (1989)
   (760) 750-4848 • Semester Enrollment 6,496 • www.csusm.edu
18 California State University, Stanislaus (1957)
   (209) 667-3151 • 4-1-4 Enrollment 7,534 • www.csustan.edu
19 Humboldt State University (1913) • (707) 826-4402
   Semester Enrollment 7,382 • www.humboldt.edu
20 San Diego State University (1897) • (619) 594-6336
   Semester Enrollment 34,171 • www.sdsu.edu
21 San Francisco State University (1899) • (415) 338-1113
   Semester Enrollment 26,866 • www.sfsu.edu
22 San Jose State University (1857) • (408) 283-7500
   Semester Enrollment 28,007 • www.sjsu.edu
23 Sonoma State University (1960) • (707) 664-2778
   Semester Enrollment 7,590 • www.sonom.edu

Saddleback College
www.saddleback.edu
Transfer Patterns

Transfer-Pattern Planning

I. Transfer students, that is, students planning to enter a university or four-year college after attending Saddleback College, should take note of the following suggestions:

A. Consult the catalog of the college or university to which they intend to transfer for such requirements as:
1. Admission
2. Major requirements
3. General education or breadth requirements

B. Note the difference between lower and upper-division courses required by the particular college or school of the university in which the advanced work is to be taken.

Important point: Degree credit in the major can be expected only for those community college courses which parallel courses designated as lower division by four-year colleges or universities.

C. Note courses which must be taken in preparation for the major as well as those required in the major.

D. Remember that community college courses transfer to four-year colleges in terms of specific or elective credit depending upon the school and major selected. Refer to sample transfer programs on the following pages to determine if an example is offered for a particular major or institution. Refer also to the "Announcement of Courses" section for information regarding the California Articulation Number (CAN) system. Refer also to the ASSIST (Articulation System Stimulating Interinstitutional Student Transfer) website at www.assist.org, which is the official California statewide database listing a selection of campus-approved transfer agreements, general education requirements, and information on UC and CSU transferable courses. Students are advised to contact a Saddleback College counselor for more information, and for details regarding other transfer agreements and options not available on ASSIST for your transfer college choice.

E. Note any policies regarding the maximum number of units which may be transferable. A maximum of 70 transferable units completed at the community college level may be applied toward the total number of units required for a bachelor’s degree by the University of California or the California State University. Subject credit for transferable courses in excess of 70 units may also be granted to satisfy university graduation requirements. Any courses accepted as equivalent to those offered in lower-division by the university completed at the community college, even if beyond the 70-unit maximum, will be applied where needed to meet specific lower-division major and/or general education/breadth requirements. Therefore, students are strongly advised to complete all courses designated as required lower-division preparation for the major prior to transfer, especially where admission to the major is contingent on completion of specific courses.

F. Note that with proper planning, a qualified student can complete the lower-division requirements for virtually any major offered by a four-year institution. Saddleback College counselors will assist students in their planning through group or individual appointments.

II. Where particular problems of articulation or planning are present, counselors will assist students through contacts with the various offices of school relations of colleges and universities. Students also should confer with faculty in their departmental major in planning their program. Students should also avail themselves of opportunities to meet with representatives of colleges and universities which are scheduled throughout the academic year in the Transfer Center.

III. Catalogs and applications for admission to the University of California and the California State University are available in the Counseling Services office and the Career Center. The Career Center maintains catalogs and applications from other institutions as well and will provide assistance in obtaining information and applications.

IV. All students must assume complete responsibility for compliance with regulations and instructions set forth in catalogs for selecting the courses which will permit them to meet their educational objectives and for satisfying prerequisites for any programs or courses which they plan to take.

The following information is subject to change

The California State University

(Refer to the California CSU/UC map)

Application Filing Periods

(Applications first accepted):

- Summer Semester or Quarter: February 1 (6 campuses)
- Fall Semester or Quarter: October 1
- Winter Quarter: June 1
- Spring Semester or Quarter: August 1

You are urged to file early. Applications to impacted majors must be filed during the initial filing period, which is the first month of the filing period, and will be subject to supplemental admission criteria. If applying after the initial filing period, consult the campus admissions office or website for current information. Except for impacted majors, campuses accept applications until enrollment categories are filled. Most campuses will acknowledge receiving your application within two to four weeks.

Eligibility for Transfer

You will qualify for admission as a transfer student if you have a grade-point average of 2.0 (2.4 if a non-California resident) or better in all transferable units attempted, are in good standing at the last college or university attended, and meet any of the following standards:

1. will meet the freshman admission requirements (courses and test scores) in effect for the term to which you are applying.*
2. were eligible as a freshman* at the time of application for admission or at the time of graduation from high school, provided you have been in continuous attendance** at an accredited college since graduation, or
3. were eligible as a freshman except for the college preparatory subject requirements, have completed appropriate college courses in the missing subjects, and have been in continuous attendance** in an accredited college since high school graduation.
4. have completed at least 56 transferable semester (84 quarter) units and have completed appropriate college courses as indicated below.

*Refer to the CSU application for the freshman eligibility index and subject requirements.

**Continuous attendance** is defined by CSU as attendance in at least one course for at least one semester or two quarters in any calendar year.

For this requirement, transferable courses are those designated for that purpose by the college or university offering the courses. Saddleback College certifies courses numbered 1 to 199 in the catalog as CSU-transferable.

Making Up Missing College Preparatory Subject Requirements

Undergraduate transfer applicants with fewer than 56 units who did not complete the subject requirements while in secondary school may make up missing subjects in any of the following ways:
1. Complete appropriate courses with a “C” or better in adult school or high school summer sessions. Courses on the UC’s “4*” list will satisfy this alternative.

2. Complete appropriate courses in college with a “C” or better (one course of three semester (four quarter) units will be considered equivalent to one year of high school study); or

3. Earn acceptable scores on specified examinations.

*Transfer applicants with 56 or more semester (84 quarter) units will be eligible for admission if they:

1. Have a college grade point average of 2.00 or better (2.40 for non-California residents) in all transferable college units completed.
2. Are in good standing at the last college or university attended (i.e., you are eligible to re-enroll).
3. Have completed or will complete prior to transfer at least 30 semester units (45 quarter units) of courses equivalent to general education requirements with a grade of “C” or better. The 30 semester units must include all of the general education requirements in communication in the English language (English composition, oral communication, and critical thinking) and at least one course of at least 3 semester units (4 quarter units) required in college-level mathematics. (See Area A and B-4 on Saddleback College’s CSU G.E. certification pattern or Areas 1 and 2 of the IGETC)

Note: Some CSU campuses will admit transfer students based on courses planned or “in progress,” and some will not. Please contact the specific CSU campus(es) or refer to their published or electronic materials for specific campus information.

*IMPORTANT: Students transferring to the CSU as upper-division transfers are strongly encouraged to complete at least 60 semester (90 quarter) units prior to admission and enrollment. Students who have completed 56-59.9 transferable semester (84-89.9 quarter) units may be admitted on the basis of upper-division transfer requirements; however, they will not be considered to have achieved junior class level standing unit they have completed at least 60 semester (90 quarter units). This may affect their eligibility for registration priority at the CSU campus, or it may affect their financial aid status. The CSU assigns high priority to California Community College transfer students who have completed the first two years of the baccalaureate program, including transfer students applying for impacted programs.

A maximum of 70 semester (105 quarter) units earned in a community college may be transferred to the California State University; however, courses in excess of 70 semester units will receive subject credit and will be applied to satisfy content requirements as appropriate. No upper-division credit is allowed for courses taken in a community college.

Students transferring with certification of general education requirements are assured that they have met 39 units of the 48-unit minimum requirements for the bachelor's degree. Students transferring without certification of general education must complete the pattern of courses required of “native” students, as outlined in the catalog of the particular CSU campus. The course pattern which Saddleback College uses to certify that the student has met the required minimum of 39 semester units of general education follows.

Some majors, such as business administration, computer science, and engineering, may be impacted at some campuses, i.e., more applications are received during the first month of the filing period than can be accommodated. In such cases, campuses use supplemental admissions criteria to screen applications, such as grade-point average, required subjects, or test scores. Applications for admission to an impacted program must be filed during the first month of the filing period. To be considered in impacted programs at two or more campuses, applications must be filed to each. Information about screening criteria is available in Saddleback’s Counseling Services office and the Career Center, as well as information on transfer guarantee/assurance programs such as CSU Fullerton’s Priority Access Channel for Transfers (PACT).

Note: Transfer applicants are required to submit final transcripts prior to attendance in CSU classes to verify that all required coursework has been completed successfully. CSU campuses may delay admission until a final transcript is submitted.

Transfer Students and Certification of General Education California State University

(Information Subject to Change)

Note: Courses on this list are approved for a specific academic year which begins with the Fall semester. Students wishing to use a course to meet a CSU GE Breadth requirement must be sure that the course is approved for the academic year in which it is taken. Courses on this list are approved for the current and all prior academic years unless otherwise noted. This list is valid through Summer 2003.

Under provisions of CSU executive order, Saddleback College (SC) will certify completion of up to 39 of the 48 units required in general education. If SC certifies that you have completed courses from the following list approved for general education, the CSU campus to which you transfer will require you to complete the requirement in those sections in which you are not certified. You may be held only for additional courses required for “native” students, but you will not be required to complete more units than the difference between the amount certified and the total required.

Students must include at least nine units of upper-division courses completed no earlier than the semester in which they become juniors at the campus granting the degree in order to complete general education requirements.

No student will be eligible for certification until a minimum of 12 units have been completed at Saddleback College.

Area A: Nine units in communication skills to include oral and written communications and critical thinking. All courses in Area A must be completed with a grade of “C” or better.

A1 Oral Communication—SP 1 or 5 (formerly 105)
A2 Written Communication—ENG 1A
A3 Critical Thinking—One course from the following: ENGL 1B, 170; PHIL 12; SP 2, 3

Area B: A minimum of three courses to include inquiry into the physical universe, into life forms (including laboratory activity), and into mathematical concepts. One course must be taken from B1 and B2 (one of which must be a laboratory course designated B3), and one course from area B4.

Note: Saddleback College policy is that you cannot combine a Geography course from Area B1 with an Anthropology course from Area B2. These courses are marked with a plus (+) symbol.

B1 Physical Universe (Physical Science)
ASTR 20* (lab course when combined with ASTR 25), 21, 45
CHEM 1A*, 1B*, 3*, 12A*, 12B*, 108*, 120*
ENV 23*, 120*
GEOL 1*, 2*, 3, 5*, 20*, 21, 23*
+GEOG 1* (lab course when combined with GEOG 1L)
MS 4*, 20*
PHYS 2A*, 3A*, 4A*, 29*

B2 Life Forms (Biological Science)
+ANTH 1* (lab course when combined with ANTH 1L), +16 (formerly 110A)
BIO 1A*, 1B*, 11*, 12*, 15*, 18*, 19*, 20*, 24, 40, 41, 43
ENV 18*, 19*, 24,
HORT 20*

B3 *Indicates a laboratory course
B4 Mathematical Concepts
Courses applicable to Area B4 must be completed with a grade of "C" or better:
MATH 2, 3A, 3B, 3C, 7, 8, 9, 10, 11, 24, 26, 124

Note: An intermediate algebra course completed prior to Fall Semester 1988 will be accepted by the CSU as meeting graduation requirements in general education.

Area C: A minimum of three courses, nine units, among the arts, literature, philosophy, and foreign languages. At least one course from Arts and one from Humanities.

C1 Arts
ART 4, 20, 21, 22, 23, 24, 25, 26, 28, 29 (formerly 27)
ARCH 112
CA 29, 30
FASH 144 (beginning Fall 1993)
FA 27
ID 110, 122, 125
MUS 1, 20, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 40, 47, 49, 90
PHOT 25
PE 64/TA 64
SP 32
TA 10, 11, 20, 21 (prior to Fall 1993), 22, 25, 26, 32, 110

C2 Humanities
ARAB 1, 2
CH 1 (or 1A and 1B), 2, 21
FR 1* (or 1A* and 1B*) 2*, 3, 4, 10, 20, 21
GER 1* (or 1A* and 1B*) 2*, 3, 4, 10, 21
HEBR 1, 2
HIST 4, 5,
HUM 1, 2, 3, 4, 10A, 10B, 21, 22, 25
IDS 1, 2, 5
ITA 1 (or 1A* and 1B*) 2*, 3, 4, 10, 21
JA 1, 2, 3, 4, 21
KOR 21
PHIL 1, 10, 14, 15
SL1 (formerly 32), 2 (formerly 33), 3 (formerly 34), 4 (formerly 35) (beginning Fall 1993)
SPAN 1* (or 1A* and 1B*) 2*, 3, 4, 10, 20A, 20B, 21A, 21B
SP 30
TA 30
*Beginning Fall 1988

Area D: A minimum of nine units dealing with human, social, political, and economic institutions and behavior; historical background.
HIST 7 or 8 or 16 or 17 or 22 must be included. HIST 22 may not be combined with HIST 7 or 8 or 16 or 17. Two additional courses including at least one in an area other than D6.

D1 Anthropology
ANTH 2, 3, 6, 8, 9, 10

D2 Economics
ECON 2, 4 (formerly 1), 20
(MGMT 100 prior to Fall 1986)

D3 Ethnic Studies
ANTH 4; CCS 1, 2, 10; HIST 20, 33 (beginning Fall 2001), 81; PSYC 16 (formerly 116); SOC 4, 6, 20

D4 Gender Studies
ANTH 21; HIST 21; PS 21; PSYC 21; SOC 21; WS 10, 21, 40

D5 Geography
GEOG 2, 3, 38

D6 History
HIST 7, 8, 9, 11, 12, 16, 17, 19, 22, 25, 27, 28, 30, 31, 32, 40, 41, 46, 70, 71, 72, 74

D7 Interdisciplinary Social or Behavioral Science
ANTH/SP 20 (formerly 109); ECON/ENV 6; ENV 1; HIST/PS 61, 75, 80; PS/ECON 11; PSYC/SOC 30

D8 Political Science
PS 2, 4, 12, 14, 17

D9 Psychology
PSYC 1, 2, 3, 7

D0 Sociology
SOC 1, 10, 15
(HS 100, 120 prior to Fall 1986)

Area E: A minimum of three units in life skills, that is, study to equip human beings for lifelong understanding and development of themselves as integrated physiological, social, and psychological entities.
APSY 140, 150, 151, 160, 163
BUS 116 (beginning Fall 2002)
FCS 115, 140, 142 (beginning Fall 1997)
FN 50, 64
GERO 101
HLTH 1, 3
HS 175 (beginning Fall 1995)
PE 107 or select one course from PE 1, 2, 3, 4, 5, 6, 7, 8, 9, 28, 29, 50, 63/TA 63, PE 90, 93, 94; or PESS 1 or 107 (Note: one course maximum)
PSYC 33
WS 120

AMERICAN INSTITUTIONS REQUIREMENT:
PS 1 and either HIST 7, 8, 16, 17, or 22 from Area D6.

In addition to the general education requirements, all students must include coursework in U.S. History and Constitution and American ideals as required by Section 40404 of Title 5 of the Administrative Code. Completion of U.S. History from Area D and the above course will meet all or part of this requirement.

Certification of CSU General Education Requirements
No student will be eligible to petition for certification of the CSU General Education requirements until a minimum of 12 semester units have been completed at Saddleback College.

Saddleback College will certify coursework completed at another California community college or any institution that participates in certifying general education coursework to the CSU, including CSU campuses other than the one to which the student is transferring, only if the courses are on the approved CSU general education list at the college where they were completed. Such a course will be certified in the General Education-Breadth area that is shown on the official certification list for the institution at which it was taken.

When coursework has been taken at a regionally accredited institution that does not maintain a CSU certification list, Saddleback College certifies that the coursework provided that Saddleback College faculty determine that the coursework is equivalent to coursework on the approved Saddleback College General Education Breadth list.

Note: Coursework from Irvine Valley College or other community colleges with the same course number and/or title may not always be certified in the same category at Saddleback College for CSU G.E. Certification. Also similar coursework from accredited independent or private colleges will not always be certified unless the course content is deemed equivalent by Saddleback College faculty especially in certification areas: A2- Written Communication, A3- Critical Thinking, and B4- Mathematics.

Students meeting area requirements may petition for partial certification in one or more of the areas (i.e., Area A, B, C, D, or E), but the college will not certify course requirements short of an entire area. The institution to which a student transfers will require completion of the requirement in those sections which are not certified and may require additional specific courses as required of native students.

Note: Completion of 60 units including completion of the California State University general education certification will satisfy the requirements for an Associate in Arts degree in General Studies.
The CSU certification service, performed by the Office of Admissions and Records, is available only when an official transcript is being sent to a California State University or any college or university which accepts CSU certification.

**Important:**

General education courses should not be the same courses used to meet departmental major requirements. In general, courses listed as preparation for the major are also applicable to general education requirements. Students should refer to the catalog of the institution offering their intended major to determine lower-division major requirements as well as those which are recommended or required in preparation for the major, and the transfer pattern section of the Saddleback College catalog for examples.

Refer also to the ASSIST website at www.assist.org which is the official California state-wide database listing a selection of campus-approved transfer agreements, general education requirements, and information on UC and CSU-transferable courses. Students are advised to contact a Saddleback College counselor for more information, and for details regarding other transfer agreements and options not available on ASSIST for your transfer college choice.

**University of California**

(Refer to the California CSU/UC map)

**Priority Application Filing Periods**

- **Fall Quarter:** November 1-30
- **Winter Quarter:** July 1-31
- **Spring Quarter:** October 1-31
- **UC Berkeley:**
  - **Fall Semester:** November 1-30
  - (**Applications for UC Berkeley accepted for Fall only)**

**Eligibility for Transfer**

To qualify for admission to the University as a transfer student, a student must meet one of the following four sets of requirements:

1. If you were eligible for admission to the University when you graduated from high school—that is, you satisfied the Subject, Scholarship, and Examination Requirements—you are eligible to transfer if you have a "C" (2.0) average in your transferable coursework.
2. If you met the Scholarship Requirement but did not satisfy the Subject Requirement, you must take transferable college courses in the subjects you are missing, earn a grade of "C" or better in each of these required courses, and earn an overall "C" (2.0) average in all transferable college coursework to be eligible to transfer.
3. If you were not eligible for admission to the University when you graduated from high school because you did not meet the Scholarship Requirement, you must:
   - **A.** Complete 90 quarter units or 60 semester units of transferable college credit with a grade-point average of at least 2.4, with no more than 14 semester (21 quarter) units completed on a credit/no credit basis AND
   - **B.** Complete the following course pattern requirement, earning a grade of "C" or better in each course:
     1) two transferable college courses (3 semester or 4-5 quarter units each) in English composition and
     2) one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; and
     3) four transferable college courses (3 semester or 4-5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, and the physical and biological sciences.

(Students who satisfy the Intersegmental General Education Transfer Curriculum (IGETC) prior to transferring to UC may satisfy Option 3B above of the transfer admission requirements.)

**Note:** If the number of applicants exceeds the spaces available for a particular campus or major—as is often the case—the campus uses criteria that exceed the minimum requirements to select students. Meeting the minimum requirements, therefore, is not enough to gain admission to many UC campuses and programs. The average grade-point average varies widely by campus and by major.

**Community College Transfer Priority Admission**

UC campuses give priority consideration for admission to California community college students. A California community college student applying for admission to the University of California in advanced standing will be given priority admission over all other applicants if:

1. he/she was enrolled at one or more California community colleges for at least two terms (excluding summer sessions);
2. the last college he/she attended before admission to a UC campus was a California community college (excluding summer sessions); and
3. he/she has completed at least 30 semester (45 quarter) UC-transferable units at one or more California community colleges.

**Clearing Deficiencies in the UC Subject Requirement**

For students transferring in Fall 1998 or later:

**Note:** Students must earn a grade of "C" or better in each course taken.

<table>
<thead>
<tr>
<th>UC Subject Requirement</th>
<th>High School Requirement</th>
<th>How to Clear A-F Deficiency or Omission with College Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) History/Social Science</td>
<td>Two years</td>
<td>For a deficiency in U.S. history/civics/American government, a transferable college course of three or more quarter units in U.S. history, civics, or American government. For a deficiency in world history/cultures/geography, a transferable college course of three or more quarter units in world history, cultures, and geography, (e.g., HIST 4 or 5)</td>
</tr>
<tr>
<td>(b) English</td>
<td>Four years</td>
<td>For each year of deficiency, one transferable course of four or more quarter units in English composition, literature (American or English), speech, foreign literature in translation, public speaking, or oral interpretation of literature. Literature and speech courses must include substantial composition.</td>
</tr>
</tbody>
</table>
### Mathematics
Three years required
To clear the entire deficiency, complete one of the following: a transferable mathematics course that employs the topics of intermediate algebra, OR; a transferable statistics course offered by either a mathematics or statistics department that has intermediate algebra as a prerequisite (e.g., Math 8, 9, or 10).

### Laboratory Science
Two years
For each year of deficiency, a transferable course in a natural (physical or biological) science with at least 30 hours of laboratory (not demonstration). See IGETC list for examples.

### Languages Other than English
Two years
Any transferable course(s) (excluding conversation) held by the college to be equivalent to two years of high school language. Because Saddleback College lists the prerequisite for the second course in each foreign language offered as “two years of high school” language, a language 1 (or 1A and 1B) course clears both years of the requirement.

### College Preparatory Electives
Two years
For each year of deficiency, one transferable course beyond those listed above as clearing any of the “a-e” requirements, or a transferable course having as pre requisite the equivalent of four or more quarter units in history, social science, or visual and performing arts.

### Program Planning
Students planning to transfer to the University of California must keep the following requirements in mind when selecting courses:

1. **Admission/Major Requirements:**
   - As indicated above, the University has a common set of requirements which specify minimum eligibility for admission as a transfer student. However, several campuses have additional requirements that may go well beyond minimum eligibility requirements, particularly where the number of applications exceeds the number of spaces available. Students should give first priority toward completing all lower-division requirements for the major. In many cases, completing a portion of the major requirements is essential to gain admission to the major at the junior level.

2. **General Education/Breadth:**
   - Each school and college at every UC campus has its own general education, or breadth, requirements designed to give students a broad background in a variety of academic areas. Students have the option of (1) completing the campus specific breadth requirements or (2) completing the Intersegmental General Education Transfer Core Curriculum (IGETC) outlined in the following section of this catalog.

A minimum of 120 units (180 quarter units) is required to complete a baccalaureate degree from the University of California. The University will award graduation credit for up to 70 semester (105 quarter) units of transferable coursework from a community college. Courses in excess of 70 semester units will receive subject credit and may be used to satisfy University subject requirements. Some campuses have limits on the number of transfer units that will be accepted. If your community college work is combined with credit from a four-year institution, there might be a problem. Please consult the Admissions Office at the UC campus that interests you.

In general, no UC course credit is given for a course completed after a more advanced course is completed in the same subject matter.

### Courses Accepted for Transfer to the University of California

#### (Information Subject to Change)

The University of California (UC) Office of the President annually reviews Saddleback College course offerings to determine which courses are similar in nature, scope, and content to UC offerings. Following is the most current list available at the time of catalog publication of courses transferable to all UC campuses and is subject to change.

Saddleback College courses not listed which are numbered from 1 to 99 are either pending UC transfer credit subject to review by the UC Office of the President during the next update cycle, or were not approved as UC-transferable.

UC Subject Requirement Change Effective Fall 2003:

Beginning with applicants for Fall 2003, the "Subject Requirement" will include one unit of coursework in visual and performing arts (dance, drama/theater, music, or visual arts). The number of college preparatory electives required will be reduced from two units to one, so the total number of Subject Requirement units will remain at 15. The "visual and performing arts" requirement will be labeled the "f" requirement and the college preparatory elective requirement will be labeled the "g" requirement.

ACCT 1A, 1B

ANTH 1, 1L, 2, 3, 4, 6, 7, 8, 9, 10, 12 ( ANTH 12 UC-status pending confirmation), 13, 14, 15, 20, 21

ARAB 1, 2 (ARAB 1, 2 status pending UC reinstatement)

ARCH 110, 112, 134, 142, 144, 150, 151

ART 4, 10, 11, 12, 13, 20, 21, 22, 23, 24, 25, 26, 28, 29 (formerly 27), 40, 41, 42, 50, 51, 52, 53, 54, 57, 58, 59, 60, 61, 62, 70, 71, 72, 78, 79, 80, 81, 82, 85, 86, 87, 170, 189#

#UC transfer credit is contingent upon a review of the course outline by a UC campus.

ASTR 20, 21, 25, 45, 180#

#UC transfer credit is contingent upon a review of the course outline by a UC campus.

BIO 1A, 1B, 1C, 11, 12, 15, 18, 19, 20+, 24, 40, 41, 43, 44, 180#

#UC transfer credit is contingent upon a review of the course outline by a UC campus.
IGETC—The Intersegmental General Education Transfer Curriculum

(Information Subject to Change)

The Intersegmental General Education Transfer Curriculum (IGETC) is a series of courses that community college students can use to satisfy lower-division general education requirements at any campus of the University of California (UC) or California State University (CSU). The IGETC will permit a student to transfer from Saddleback College to a campus in either of these university systems without the need, after transfer, to take additional lower-division general education courses to satisfy campus general education requirements.

Transfer Patterns

BUS 1+, 12*, 14*, 31
+1 is transferable in mediated (TV) mode.
*12, and 14 combined: maximum credit, one course.

CA 1, 29, 30, 31, 32#, 40+, 42
*37 and 32 combined: maximum credit, one course.
+Maximum credit, 6 units.

CCL 1, 2, 10

CHEM 1A, 1B, 2A+, 2B+, 3, 4, 10, 20, 21

CHEM 1A, 1B, 2A+, 2B+, 3, 4, 10, 21

CHEM 1A, 1B, 2A+, 2B+, 3, 4, 10, 20

CHEM 1A, 1B, 2A+, 2B+, 3, 4, 10

GEOL 1, 2, 3, 5, 6, 20*, 21, 23, 189#

GEOG 1, 1L, 2, 3, 38

GC 170

FR 1, 1A*, 1B*, 2A+, 2B+, 3, 4, 10, 20, 21

FREN 50, 64

HS 37

HIST 4, 5, 7*, 8*, 9, 10, 11, 12, 15, 16*, 17*, 19, 20, 21, 22*, 25, 27, 28, 30, 31, 32, 33, 40, 41, 60, 61, 70, 71, 72, 74, 75, 80, 81, 189#

*7, 8, 16, 17 and 22 combined: maximum credit, 2 courses.

HIST 4, 5, 7*, 8*, 9, 10, 11, 12, 15, 16*, 17*, 19, 20, 21

*HIST 4, 5, 7*, 8*, 9, 10, 11, 12, 15, 16*, 17*, 19, 20, 21

HIST 4, 5, 7*, 8*, 9, 10, 11, 12, 15, 16*, 17*, 19, 20, 21

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HIST 4, 5, 7*, 8*, 9, 10, 11, 12, 15, 16*, 17*, 19, 20, 21

HIST 4, 5, 7*, 8*, 9, 10, 11, 12, 15, 16*, 17*, 19, 20, 21
Completion of the IGETC is not a requirement for admission to a CSU or UC campus, nor is it the only way to fulfill the lower-division general education requirements of CSU or UC prior to transfer. Students still have many options, including fulfilling the CSU-specific general education certification pattern or completing the lower-division requirements of the campus to which they plan to transfer.

The IGETC is most advantageous for transfers who have not yet decided on a major or a campus. Once a student has identified a major, it is important to work toward fulfilling any required preparatory courses—particularly in those professional or "high unit" majors that select applicants on the basis of satisfaction of lower-division major requirements. It is important to note that this does not preclude a student from following the IGETC; however, the IGETC should not be done to the exclusion of completing any preparatory courses needed for admission to the major.

In general, it is not advisable for transfers to Engineering majors at any UC campus to use the IGETC. Students entering "high unit" majors, such as those in the sciences, can follow the IGETC but must be careful to complete any needed lower-division major preparation. For example, majors in the sciences not only have specific science prerequisites, but also substantial mathematics requirements.

Courses on this list are approved for the 2002-2003 academic year. Courses wishing to use a course to meet an IGETC requirement must be sure that the course is on the list during the academic year it is taken. For example, in the course listing below, CA 30 [F'94] denotes that this course must have been completed in the Fall 1994 semester or later to receive IGETC credit.

All courses for IGETC must be completed with a grade of "C" or better.

AREA 1—ENGLISH COMMUNICATION
A. English Composition: ENG 1A
B. Critical Thinking-Composition: ENG 1B completed Summer 1992 or after.

Because courses in this category must meet criteria reviewed by an intersegmental faculty committee, it is highly unlikely that courses taken at an institution other than a California community college will be approved. The course must have been certified in the year when completed.

C. Oral Communication (not required of UC transfers): SP 1

AREA 2—MATHEMATICAL CONCEPTS and QUANTITATIVE REASONING
(1 course, 3-5 semester units)
Any one of the following courses will meet the Mathematical Concepts and Quantitative Reasoning requirement: MATH 2 **, 3A**, 3B, 3C, 7**, 8**, 9, 10, 11**, 24, 26

AREA 3—ARTS and HUMANITIES
(at least 3 courses, 9 semester units)
At least one course from the Arts and one from the Humanities.

Arts courses:
ART 4, 20, 21, 22, 23, 24 [F'96], 25, 26, 28, [F'02]; CA 30 [F'94]; FA 27; MUS 20, 23, 24, 25, 26, 27 [F'94]; 28 [F'94]; 29 [F'94]; PHOT 25; PE/T A 64 [F'96]; TA 20, 25, 26.

Humanities courses:
CHEM 1A**, 1B**, 3A**, 3C, 7**, 8**, 9, 10, 11**, 24, 26

AREA 4—SOCIAL and BEHAVIORAL SCIENCES
(at least 3 courses, 9 semester units)
Courses from at least two disciplines (courses listed by discipline, e.g., Anthropology, Political Science).
ANTH 2, 3 [F'02], 10, 10, [F'98]; ANTH/SP 30, [F'98]; ANTH 21; CCS 1 [F'96], 2 [F'96], 10; ECON 2, 4 (formerly 1), 6; ENV 6, ECON/PS 11 [F'00]; ECON 20 [F'94]; ENV 11 [F'01]; GEOG 2, 3; HIST 7**, 8**, 12 [F'02], 16**, 17**, 19, 20; SOC 20, HIST 21, 22**, 22; [F'98], 28 [F'98], 30, 33, 33 [F'01]; 40, 41**, 60, 61; PS 61, HIST 70*, 71*, 72* [F'01]; 74 [F'98] 75*; PS 80 [F'00]; HIST 81 [F'94]; PSY 1, 2, 3, 4, 12, 14, 21 [F'98]; PSY 1, 2, 3, 4, 12, 14, 21 [F'98]; 21**, 21, 21, 21, 21, 21, 21, 21, 21, 21

AREA 5—PHYSICAL and BIOLOGICAL SCIENCES
(at least 2 courses required, 7-9 semester units)
One Physical Science course and one Biological Science course; at least one must include a laboratory. Note: All courses without a laboratory component are in parentheses.

A. Physical Science courses:
ASTR (20), 23, 25 and 25, 21) [F'01], ASTR (45) [F'91]; CHE 1A**, 1B**, 3A**, 3C, 6, 6; CHEM 2A**, 4A**, 4B**, 20
B. Biological Science courses:
ANTH (1), 1 and 1L [F'98]; BIO 1A, 1B, 11, 18; ENV 18 [F'99]; BIO 20**, (40)

Language Other Than English (not required of CSU transfers)
Proficiency equivalent to two years of high school study in the same language.

The following courses at this institution fulfill the requirement:
CHI, FR, GER, HEBR, ITA, JA, or SPAN 1 or 1A and 1B; SL 1 (formerly 32).

U.S. HISTORY, CONSTITUTION, AMERICAN IDEALS—CSU Graduation Requirement (not part of IGETC)

Students transferring to a CSU campus should complete HIST 7* or 8* or 16* or 17* or 22* and PS 1* to meet the American Institutions Requirement in addition to minimum IGETC requirements. Courses used to meet this requirement may not be used to satisfy requirements for IGTC.

*Courses may be listed in more than one area but shall not be certified in more than one area.

**Indicates that UC course credit may be limited. No credit may be given for an introductory course if taken after a more advanced college course, e.g., BIO 20 or GEOL 20. Credit may be limited for courses with overlapping content, e.g., HIST 7, 8, 16, 17, and 22 or MATH 2, 7, and 8. Please consult the "Courses Accepted for Transfer to the University of California" listing in this section of the catalog or check with the Counseling Services office for additional information.

Note: Courses listed above were approved at the time of catalog publication. Because additional courses may be approved and requirements for subsequent years are subject to change, check with the Counseling Services office for the latest information.

Certification of IGETC Requirements

Students must apply for the IGETC certification in the Office of Admissions and Records. Students can request IGETC certification from the Office of Admissions and Records only when an official transcript is being sent to either a University of California, California State University, or any university or college which accepts IGETC certification. It is important to remember that coursework taken at other certifying community colleges will be certified only in areas certified by the community college where the course was taken. Completed courses at other non-certifying colleges and universities will be certified only when approved by faculty as equivalent to courses on the Saddleback College IGETC list.
Note: Coursework from Irvine Valley College or other community colleges with the same course number and/or title may not always be certified in the same category at Saddleback College for IGETC. Also similar coursework from accredited independent or private colleges will not always be certified unless the course content is deemed equivalent by Saddleback College faculty—especially in certification areas: 1A-English Composition, 1B-Critical Thinking/Composition, and 2A-Mathematics.

Completion of a minimum of 60 units, including all requirements for IGETC certification, will satisfy graduation requirements at Saddleback College for an Associate in Arts Degree in General Studies.

Partial Certification of IGETC: Effective Fall 2000, for good cause, a student may be partially certified if deficient no more than two courses, except that all of Areas 1 and 2 must be completed prior to transfer. If partially certified, the student has the option of completing the one or two remaining courses at another community college or at the transfer institution until the beginning of the second year of transfer. Typical situations which constitute good causes for not completing one or two IGETC courses are illness, unavailable or cancelled courses, military service, and unexpected hardships, such as family or employment problems, experienced in the final term before transfer. Students are advised to contact Saddleback College’s Counseling Services office for details.

University of California General Education Breadth Requirements

As previously indicated, each University of California (UC) campus has unique graduation requirements. Articulation agreements listing equivalent Saddleback College courses meeting general education breadth requirements at the following UC campuses are available in the Counseling Services office or refer to the ASSIST website at: www.assist.org

UC Berkeley
UC Davis
UC Irvine
UC Los Angeles
UC Riverside
UC San Diego
UC Santa Barbara
UC Santa Cruz

Full or partial articulation agreement information is available regarding course-to-course, or major requirements for the above campuses as well.

Inquire in the Counseling Services office for information regarding guaranteed admission programs with UC Berkeley (Cooperative Admission Program), UC Davis (Transfer Admission Agreement), UCSD (Transfer Admission Guarantee), UC Riverside (Transfer Admission Guarantee), and UC Santa Cruz (Guaranteed Admission for Transfer Entry).

Independent California Colleges and Universities

There are 75 fully accredited independent colleges and universities currently affiliated with the Association of Independent California Colleges and Universities (AICCU) providing a host of options at undergraduate, graduate, and professional levels for students planning to continue their education beyond Saddleback College. Admissions policies vary widely from school to another, and virtually all institutions give full credit for general education courses and usually for courses designated for transfer by the community college. A good rule to follow for independent colleges as well as for out-of-state institutions is to expect full credit for courses which are parallel in scope and content to courses offered for credit to lower-division “native” students at those institutions. Articulation agreements for many independent institutions are available in the Counseling Services office.

Independent colleges are flexible in admission policies and in awarding credit. They invite interested students to make an appointment with their Office of Admissions in order to discuss transfer opportunities on a personal basis.

Financial aid may be a primary factor in considering attending an independent college. Many students cut the cost in half by attending the community college for the lower-division program. Information on financial aid is available from financial aid offices on independent college campuses as well as in the Financial Aid office at Saddleback College.

Students are advised to refer to the AICCU’s website at: www.aiccu.edu

The following examples are illustrative of the variability of general education options for representative campuses accepting IGETC (IGETC/UC and/or IGETC/CSU options) and/or the CSU G.E. Certification pattern. The options listed for the example campuses are based upon information available at the time of catalog publication and are subject to change.

Example Campus    CSU G.E. IGETC/CSU IGETC/UC
Azusa Pacific Univ. X+ X+ X+
Biola Univ. X+ X+ X+
Chapman Univ. X+ X+ X+
Concordia Univ. X+ X+ X+
Dominican College San Rafael X+ X+ X+
Golden Gate University X+ X+ X+
Hope Int’l. Univ. X+ X+ X+
Otis College-Art & Design X+ X+ X+
Univ. of the Pacific X X X+ X+ X+
Univ. of Phoenix X+ X+ X+ X+
Univ. of San Francisco X+ X+ X+
Vanguard University X+ X+ X+

*Campus preferred option
+Additional campus-specific G.E. requirements. For details, refer to the catalog for the college of choice, or contact the Counseling Services office at Saddleback College.

Students are advised to refer to the transfer college of choice catalog, website, and contact their admissions office for details regarding campus-specific general education requirements and options.

Other Independent Colleges and Universities

Interested students will also find additional formalized articulation agreements in the Counseling Services office with other independent colleges and universities, including Azusa Pacific University, Biola University, Chapman University, Concordia University, Hope International University, Los Angeles College of Chiropractic, Loma Linda University, National University, Occidental College, Pepperdine University, Southern California College of Optometry, United States International University, University of San Diego, University of Southern California, Westmont College, and Woodbury University, among many others.
California Articulation Number (CAN)
(Information Subject to Change)
The California Articulation Number (CAN) system identifies some of the transferable, lower-division introductory preparatory courses commonly taught within each academic discipline on college campuses.

The CAN system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN courses on another participating campus. Example: CAN ECON 2 on one campus will be acceptable for CAN ECON 2 on another participating campus. Each campus retains its own course numbering system.

Saddleback College courses qualified in the CAN system are designated following each course description in the schedule of classes.

Following is a list of Saddleback College (SC) courses qualified in the CAN system available at the time of catalog publication and is subject to change.

Students are advised to check with the Counseling Services office for the latest information, or refer to the CAN website at: www.cansystem.org

<table>
<thead>
<tr>
<th>SC Course No.</th>
<th>Course Title</th>
<th>CAN Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1A</td>
<td>Financial Accounting</td>
<td>BUS 2</td>
</tr>
<tr>
<td>ACCT 1B</td>
<td>Managerial Accounting</td>
<td>BUS 4</td>
</tr>
<tr>
<td>ANTH 1+1B</td>
<td>Physical Anthropology</td>
<td>CAN BUS SEQ A</td>
</tr>
<tr>
<td>ANTH 2</td>
<td>Cultural Anthropology</td>
<td>ANTH 4</td>
</tr>
<tr>
<td>ART 10</td>
<td>Beginning Ceramics (Handbuilding)</td>
<td>ART 6</td>
</tr>
<tr>
<td>ART 25</td>
<td>Survey of Art History: Ancient Worlds to Gothic</td>
<td>ART 2</td>
</tr>
<tr>
<td>ART 26</td>
<td>Survey of Art History: Renaissance to Modern</td>
<td>ART 4</td>
</tr>
<tr>
<td>ART 25+26</td>
<td></td>
<td>CAN ART SEQ A</td>
</tr>
<tr>
<td>ART 40</td>
<td>Two-Dimensional Design</td>
<td>ART 14</td>
</tr>
<tr>
<td>ART 41</td>
<td>Three-Dimensional Design</td>
<td>ART 16</td>
</tr>
<tr>
<td>ART 50</td>
<td>Beginning Painting</td>
<td>ART 10</td>
</tr>
<tr>
<td>ART 60</td>
<td>Beginning Intaglio (Etching) and Relief</td>
<td>ART 20</td>
</tr>
<tr>
<td>ART 70</td>
<td>Fundamentals of Sculpture</td>
<td>ART 12</td>
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<tr>
<td>ART 80</td>
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<td>Survey of American Literature: 1820–1860</td>
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</table>
Administration of Justice

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in Criminal Justice

There are no lower-division courses required in the major. California State University, Fullerton’s Criminal Justice curriculum can accommodate any/all transferable lower-division coursework of a related nature (e.g., administration of justice, police science, etc.) as CSUF’s Criminal Justice offerings are exclusively upper-division. Prospective transfers should contact the CSUF Criminal Justice department office for particulars.

General education certification requirements should be completed prior to transfer.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Science in Criminal Justice

Students intending to transfer from community college to CSULB for the B.S. in Criminal Justice program are advised to complete general education requirements prior to transfer. Saddleback’s HS 37 will be accepted for CSULB's lower-division core prerequisite CRIM 101. Other criminal justice courses taken at a community college will be accepted as lower-division electives provided the college where they were taken designated them as transferable to CSU. These courses cannot be substituted for the 39-unit upper-division criminal justice core and electives. For additional information, students should refer to the CSULB catalog and contact CSULB’s Criminal Justice department.

SAN DIEGO STATE UNIVERSITY
Bachelor of Science—Criminal Justice Administration Major

Preparation for the Major: HS 119 or AOJ 2 (offered at Irvine Valley College); MATH 10; PS 1; SOC 1 and 2.

Note: The Criminal Justice Administration major is designated as an impacted program, and specific regulations related to admissions are imposed. Students are advised to consult the department at SDSU for more information on specific regulations and admissions criteria. General education requirements should be completed prior to transfer.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

American Studies

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in American Studies

American Studies is an interdisciplinary program designed for students with a special interest in the study of American society. It is a useful program for career preparation in law, government service, business, communications, and teaching, as well as serving as a foundation for advanced study at the graduate level.

There is one specific lower-division requirement for this major to be taken after transfer to CSUF. The transfer student is advised to complete general education certification requirements and to obtain broad preparation in two disciplines of interest such as history, sociology, anthropology, women’s studies, early childhood studies, administration of justice, English, psychology, geography, or political science.

Because American Studies is interdisciplinary, the major may be effectively combined with subject matter studies necessary for either the Multiple Subject Teaching Credential (K-8) or Single Subject Credential (Grade 7-12) in social science. Students are advised to contact a Saddleback College counselor and CSUF’s Center for Careers in Teaching at (714) 278-7130 as early as possible to plan efficient course selections for general education, the major and electives.

Transfer Major Patterns

(Information Subject to Change)

In developing a program for transfer, first consideration should be given to completing the courses required in the major or as preparation for the major. Insofar as possible, the student also should complete the general education or breadth requirements for the college of his/her choice. For most majors, there should be opportunities to work in elective courses in general education, in the major, or as opportunities to explore vocational/non-vocational interests.

Students may want to complete an Associate Degree major of 20 units in a single academic discipline or in related fields. While not a requirement for transfer, the Associate Degree is generally recommended, and proper planning should enable students to satisfy requirements for graduation from Saddleback College.

The following pages set forth some examples of course patterns at Saddleback College reflecting lower-division requirements for transfer majors which will articulate specifically with a university offering the degree or programs indicated. These are merely examples of the many majors available and represent, for the most part, the lower-division major requirements for nearby colleges or for special programs about which many students inquire and which are subject to change. If a major or a particular college is not listed, the student should obtain a copy of the transfer institution’s catalog, and with the help of a counselor find parallel courses in the Saddleback College catalog.

The Saddleback College counseling staff, in cooperation with instructional divisions, will continue to work out articulation agreements establishing course correspondence, especially for those majors about which a number of students inquire. Copies of articulation agreements with four-year institutions are available in Saddleback College’s Career Center, the Counseling Services office, or refer to the ASSIST website at www.assist.org which is the official state-wide database listing a selection of campus-approved transfer agreements, general education requirements, and information on UC and CSU-transferable courses. Students are advised to contact a Saddleback College counselor for more information and details regarding other transfer agreements and options not available on ASSIST for your transfer college choice.

Transfer Major Pattern Examples for Selected Programs and Campuses:

Note: The following examples of articulated major programs for representative colleges are based on articulation information available at the time of Saddleback College catalog publication deadlines and are subject to change, as articulation is a year-round process.

Please check with the Counseling Services office for the most current information, as well as the Articulation Office’s website at http://iserver.saddleback.cc.ca.us/serv/couns/artic or the ASSIST website at www.assist.org.
For the Single Subject Matter Preparation Program (Secondary Teaching Program in Social Studies), complete the following: ECON 2, 4; GEOG 2 or 3; HIST 4, 5, 16, 17, 32; PHIL 1 or 10; PS 1 and one additional transferable political science course; also select one behavioral science course from: ANTH 1, 2, 9; PSYC 1, SOC 1.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in American Studies

The American Studies major at CSU Long Beach requires a two-semester survey of American literature (English 370A, 370B). Long Beach will accept Saddleback’s ENG 15A, 15B on petition, providing the course is not also being used to meet general education requirements, but no upper-division credit will be given. CSULB indicated no new students were admitted into this program during the 2001-02 academic year.

Refer to the CSULB catalog for further information regarding this program.

SAN DIEGO STATE UNIVERSITY
Bachelor of Arts in American Studies

The flexibility of this interdisciplinary major allows graduates to enter a broad range of career areas, including journalism, law, law enforcement, environmental planning, teaching, archival work, museum curatorship, international business, librarianship, or government service. Many universities have graduate programs in American Studies. Graduate work may be required for entrance into a specific career field.

Lower-division Preparation for the Major: ANTH 2; ENG 1A, 15A, 15B; HIST 7 and 8 or HIST 16 and 17.

Proficiency equivalent to a Foreign Language level 3 is required. Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College). Refer to the SDSU catalog for further details. Students interested in this major are advised to consult with an SDSU advisor.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

Anthropology

CALIFORNIA STATE UNIVERSITY, FULLERTON (F)
CALIFORNIA STATE UNIVERSITY, LONG BEACH (LB)
SAN DIEGO STATE UNIVERSITY (SD) *
Bachelor of Arts in Anthropology (CSUF, CSULB, SDSU)

Lower-division Preparation:

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<tr>
<td>ANTH 9</td>
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*San Diego State’s Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College.

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Arts in Anthropology

Note: In fulfillment of the requirements below, a single course may be used only once:

Lower-division Requirements for the Major: ANTH 2 and ANTH 1 or 3 or 9, and select four courses from: ANTH 4, 6, 7, 10, 13, 21 (ANTH 1, 3 or 9 if not already taken as noted above); CIM 10 or (CIM 2A and CIM 10) or CS 1C; MATH 13A and 3B or a one-year statistics sequence completed after transfer.

G.E. Breadth requirements: Information regarding UC G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org.

UNIVERSITY OF CALIFORNIA, LOS ANGELES
Bachelor of Arts in Anthropology

Preparation for the Major Requirements: ANTH 1, 2, 9, and select one course from: ANTH 4, 6, or 21.

Bachelor of Science in Anthropology

Preparation for the Major Requirements: ANTH 1, 2, 9; BIO 1A, 1B, 1C; CHEM 1A, 1B, 12A; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B.

Architecture and Environmental Design Majors

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

*Transfer credit for all Architecture (ARCH) course equivalencies listed below is subject to portfolio review at Cal Poly Pomona.

Bachelor of Architecture

Lower-division Major Preparation: *ARCH 124A, 134, 136, 142, 144.

Cal Poly Pomona recommended preparation should also include: ECON 2, 4; ENG 1A, 1B; HIST 17; MATH 124; PHYS 2A; PS 1; SP 3. These course equivalencies satisfy a portion of Pomona’s general education requirements for this major.

Because the program is oversubscribed, applications are accepted only in the CSU’s initial application filing period.

Bachelor of Science in Landscape Architecture

Note: There are no articulated courses meeting lower-division major preparation for this major to be taken prior to transfer. Interested students are advised to consult with a Cal Poly Pomona advisor.

Cal Poly Pomona recommended preparation should include the following course equivalencies which satisfy a portion of the support and general education requirements for this major: ART 80; BIO 20; BUS 1; CHEM 3; ECON 2, 4; ENG 1A, 1B; HIST 17; MATH 124; PS 1; PSYC 1; SP 3.

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO

+ Transfer credit for all Architecture (ARCH) course equivalencies listed below is subject to portfolio review at Cal Poly San Luis Obispo.

Bachelor of Architecture

Lower-division Major Course Requirements: +ARCH (124A and 124B), 126.

Lower-division Support Courses: +ARCH 110; ENGR 31; MATH 3A; PHYS 4A (equivalency for SLO’s PHYS 131) is required for admission. An additional quarter of physics (PHYS 132) can be completed at SLO after transfer, or students can complete PHYS 4A-4B-4C sequence at Saddleback College prior to transfer.
Bachelor of Science in Architectural Engineering

Lower-division Major Course Requirements: ENGR 31

Lower-division Support Courses: +ARCH 110; (124A and 124B); 126, (134 and 136), 142; CHEM 1A*; CS 12; ENGR 33; GEOL 1; MATH 3A*; 3B*, 3C, 24; PHYS 4A* (equivalency for SLO’s PHYS 131) is required for admission. Additional required physics courses can be completed at SLO after transfer or students can take PHYS 4A-4B-4C sequence at Saddleback College prior to transfer.

Bachelor of Science in City and Regional Planning

Lower-division Support Courses: +ARCH 110; ECON 20; MATH 7* or 8*; (GEOL 1 and MATH 10 are recommended).

Bachelor of Science in Landscape Architecture

Lower-division Support Courses: +ARCH 110; BIO 1B*; HORT 10, 11; MATH 7* or 8*, 124*; (MATH 10 recommended).

*Course equivalents listed above also apply toward SLO’s general education and breadth requirements.

General Education and Breadth: See California State University general education certification or the Intersegmental General Education Transfer Curriculum (IGETC) sections in this catalog. Completion of general education requirements before transfer is strongly recommended.

UNIVERSITY OF CALIFORNIA, BERKELEY

Architecture

Lower-division Design Prerequisites: ARCH (110 and 112), (134 and 144), ART 80 and ARCH 142

Lower-division Non-Design Prerequisites: ENG 1A, 1B, 25; MATH 3A, 3B; PHYS 3A or 4A

UC Berkeley does not recommend IGETC for this major. Refer to the UCB catalog or ASSIST at www.assist.org for details regarding General Education Breadth requirements for students entering UCB effective Fall 2003.

Art

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Arts in Art

The Bachelor of Arts degree offers concentrations in Art History, General Studio Art, and Teaching.

Art History Concentration: ART 25, 26, and two courses from the following lower-division studio courses: ART 10, 11, 40, 41, 50, 51, 52, 60, 61, 62, 70, 71, 72, 80, 81, 85, 140, 144, 175; plus nine units of transferable lower-division electives in art, American studies, anthropology, history, literature, music, philosophy, or theater.

General Studio Art Concentration: ART 25, 26, 40, 41, 50, 51, 80, 85, and at least six units of transferable lower-division elective courses from two of the following areas: Printmaking: ART/GD 140, ART/GD 144; Sculpture: ART 60, 61, 62, 70, 71, 72, 175; Ceramics: ART 10, 11; Drawing and Painting: ART 51, 52, 81.

Teaching Concentration (Single Subject Instruction—Ryan Act—qualifies for teaching Art in Grades K-12): ART 10, 25, 26, 40, 41, 50, 51, 80, 85.

Bachelor of Fine Arts in Art

The Bachelor of Fine Arts degree at CSU Fullerton is a professional program providing directed studies in nine studio concentrations within the visual arts.

Upon admission to CSUF with art as the major, students are placed in the Bachelor of Arts category, whether entering as a freshman or transferring from a community college. After admission to CSUF students should contact the Art Department regarding procedures for changing their academic objective to the Bachelor of Fine Arts in Art. *Students must provide proof of completion of the following lower-division studio core courses (12 units) with a “B” or better grade-point average for all concentrations listed:

*Studio Core Courses (12 units): ART 40, 41, 50, 80 (required for all of the following concentrations listed)

Concentrations (In fulfillment of the requirements listed below for each concentration, a single course may be used only once.)

Ceramics: *Studio Core and ART 10, 11, 25, 26, 85 required; and 6 units of studio electives selected from: ART 51, 52, 60, 61, 62, 70, 71, 72, 81,140, 144, 175.

Crafts: *Studio Core and ART 25, 26, 81 required; and 6 units of studio electives selected from: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72, 85, 140, 144, 175.

Creative Photography: *Studio Core and ART 25, 26, (60 or 61 or 62), 85 required; and 6 units of studio electives selected from: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72, 81, 85, 140, 144, 175.

Drawing and Painting: *Studio Core and ART 25, 26, 51, 52, 85 required; and 6 units of studio electives selected from: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72, 81, 85, 140, 144, 175.

Entertainment Art/Animation: *Studio Core and ART 25 , 26, 85 required; and 3 units from ART 60, 61, 62, 70, 71, 72, 81, 175; and 3 units studio electives from ART 10, 11, 51, 52, 140 and 144.

Graphic Design: *Studio Core and ART 25, 26, 85, 144 (or GD 144), (GD 140 or ART 140) required; and 6 units of studio electives selected from: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 81, 175.

Illustration: *Studio Core and ART 25, 26, 81, 144 (or GD 144) required; and 6 units of studio electives selected from: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72, 81, 140, 175.

Printmaking: *Studio Core and ART 25, 26, 51, (60 or 61 or 62), 85 required; and 6 units of studio electives selected from: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 81, 85, 140, 144, 175.

Sculpture: *Studio Core and ART 25, 26, 85 required; and 2 courses from: ART 70, 71, 72, 175 (include at least ART 71 or 72), and select 6 units of studio electives from the following if not previously taken: ART 10, 11, 51, 52, 60, 61, 62, 70, 71, 72, 81, 85, 140, 144, 175.

General Education requirements: General Education Certification requirements are listed in the introduction to this section of the catalog.

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Arts in Art, Art History, or Art Education

Lower-division Preparation:

Art: ART 25, 26, 40, 41, 50, 80, 85, and select one course from: ART 10, 11, 70, 78.

Art History: ART 25, 26, 40, 80; and 1 course from ART 41, 50, 70, 85; completion of two years of college-level French or German with an average grade of “B” or better—refer to the CSULB catalog for other options regarding the foreign language requirement for this major.

Art Education: ART 10, 11, 25, 26, 40, 41, 50, 80, 85. (Single Subject Instruction-Ryan Act-major qualifies for teaching Art in Grades K-12)

Bachelor of Fine Arts

There are professionally-oriented specialized programs leading to the B.F.A. degree at CSULB as follows:

Lower-division Preparation:

Art Photography: ART 25, 26, 40, 41, 50, 80; PHOT 50; and one course from: ART 70 or 85.

Ceramics: ART 10, 11, 25, 26, 40, 41, 50, (78 or 85), 80.

Drawing and Painting: ART 25, 26, 40, 41, 50, 80, 85; and one course from: ART 10, 11, 70, 78.
Astronomy

Bachelor of Arts–Astronomy

Lower-division Requirements: ASTR 20; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.

SDSU Recommended Courses: CHEM 1A and CS 1B or 12.

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Bachelor of Science–Astronomy

Lower-division Requirements: ASTR 20; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.

SDSU Recommended Courses: CHEM 1A and CS 1B or 12.

Students majoring in astronomy for the Bachelor of Science degree must also complete a minor in Mathematics after transfer.

General education: Refer to California State University certification requirements. It is strongly recommended that transfer students complete general education requirements prior to transfer and review the SDSU catalog for other program requirements.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

Biochemistry

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Science in Biochemistry

The B.S. degree is recommended for students planning to go directly into professional biochemistry and for students planning to attend graduate school in biochemistry or molecular biology. It is also excellent preparation for medical, dental, and pharmacy school.

Lower-division Preparation: CHEM 1A, 1B, 12A, 12B; PHYS 4A, 4B, 4C (PHYS 2A and 2B or PHYS 3A and 3B are acceptable substitutions with prior approval by CSUF’s Biochemistry chair or advisor); MATH 3A, 3B, 3C.

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Bachelor of Arts or Bachelor of Science in Biochemistry

(Applications accepted for Fall Quarter only—see UCR catalog for GPA requirements and further details on the College of Natural and Agricultural Sciences transfer requirements. UCR does not recommend IGTC for this major.)

Lower-division Requirements: BIO 1A, 1B, 1C; CHEM 1A, 1B, 12A, 12B; MATH 3A, 3B; PHYS 3A and 3B or 4A and 4B and 4C. Completion of ENG 1A and 1B prior to transfer.

Biological Sciences

Recommended Preparation:

A fully prepared biological sciences major may complete required lower-division coursework in two years, although many students choose to spread coursework over a longer period. If you have not taken a mathematically-oriented chemistry course in the last five years with a grade of “C” or better and minimum of three or four years of high school mathematics including trigonometry, you should complete the following prerequisites to a biological science major: CHEM 3 (or high school chemistry as indicated above)

MATH 253 and 124 (intermediate algebra and trigonometry and/or MATH 2 (pre-calculus mathematics, if major requires calculus or calculus-based physics)

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Arts in Biological Science

The following subdisciplines of biology are available at CSU Fullerton: botany, cell and molecular biology, ecology, genetics, marine biology, medical biology, microbiology, and zoology.

To qualify for a baccalaureate degree in Biological Sciences, students must have a 2.0 overall GPA in all required supporting courses. No credit toward the major will be allowed for biological science courses in which a grade of D or F is obtained. Courses taken under the credit/no credit grade option may not be applied toward this major.

Lower-division Core Requirements: BIO 1A and 1B. An additional 3-unit course may be required after transfer.

Lower-division Supporting Course Requirements: The following courses will meet support-course requirements for all options in biology and should be included in general education requirements: CHEM 1A, 1B, 12A, 12B; PHYS 2A and 2B or 3A and 3B; MATH 3A or 11.

Note: For the Single Subject Matter Preparation Program in Biology (Secondary Teaching Program), ADD: GEOL 1.

Refer to the general education certification requirements in the introduction to this section of the catalog.
CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Science in Biology

This degree includes a general biology option and six additional specialized options in biology education, botany, cellular and molecular biology/genetics, ecology and environmental biology, physiology, and zoology.

Core Courses:

General Biology Option: BIO 1A, 1B, 1C; CHEM 1A, 1B; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B.

Biology Education Option - (This program is designed solely for the Single Subject Teaching Credential in Science-Biological Science Concentration): ASTR 20; BIO 1A, 1B, 1C, 15; CHEM 1A, 1B; GEOL 1; MATH 20; MATH 3A; PHYS 2A and 2B or 3A and 3B

Botany Option: BIO 1A, 1B, 1C; CHEM 1A, 1B; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B.

Cellular and Molecular Biology/Genetics Option: BIO 1A, 1B, 1C, 15; CHEM 1A, 1B; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B.

Ecology and Environmental Biology: BIO 1A, 1B, 1C; CHEM 1A, 1B; GEOL 1; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B.

Physiology Option: BIO 1A, 1B, 1C; CHEM 1A, 1B; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B.

Zoology Option: BIO 1A, 1B, 1C; CHEM 1A, 1B; GEOL 1; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B.

Bachelor of Science in Marine Biology

Lower-division Preparation: BIO 1A, 1B, 1C, 15; CHEM 1A, 1B; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B.

Refer to the CSU Long Beach catalog for further details regarding either degree program.

CALIFORNIA STATE UNIVERSITY, SAN MARCOS
Bachelor of Science in Biology

Transfer students entering the program at the junior and senior levels will be expected to have completed the equivalent of lower-division requirements at Saddleback or elsewhere during their first two years, including four semesters of chemistry, two semesters of physics, and two semesters of college-level calculus or one semester of calculus and one semester of statistics.

Recommended lower-division preparation: BIO 1A, 1B and 1C; CHEM 1A, 1B, 12A, 12B; MATH 3A and 3B; PHYS 2A and 2B or 3A and 3B.

Note: Before graduating, CSUSM students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The language other than English, and computer competency requirements must be met with a grade of "C" or better. Refer to the CSUSM catalog for more information.

SAN DIEGO STATE UNIVERSITY
Bachelor of Science in Biology and *Bachelor of Arts in Biology

Formal programs of study within the major include the following emphases: Cellular and Molecular Biology, Ecology, General Biology, Evolution and Systematics, Marine Biology, and Zoology.

*Lower-division preparation for all programs: BIO 1A, 1B, 1C; CHEM 1A, 1B, 12A; MATH 3A; PHYS 2A and 2B or 3A and 3B
ADD: CS 1B for the Ecology emphasis

*Foreign Language Requirement for the B.A. in Biology: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

UNIVERSITY OF CALIFORNIA, DAVIS
Bachelor of Science in Biological Sciences

Transfer students are strongly advised to complete as many preparatory courses as possible for their major before enrolling at UC Davis.

Lower-division Preparation: BIO 1A, 1B, 1C; CHEM 1A, 1B, 12A, 12B; MATH 10, 11 or 3A, 3B; PHYS 3A, 3B.

See the UC Davis catalog, or check with the Counseling Services office for further details regarding this major.

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Science in Biological Sciences

Lower-division Preparation:

Preference will be given to junior-level applicants with the highest grades overall and who have satisfactorily completed the following required courses: one year of general chemistry (with laboratory) and an approved sequence of biological sciences.

Humanities Requirement: All transfer majors in biological sciences are required to complete ENG 1A and 1B, and two UC-transferable courses chosen from English Literature, History, Humanities or Philosophy (excluding logic).

Note: Once enrolled at UCI, Biological Sciences majors may take only UCI courses to satisfy the following major requirements, including the Humanities requirement described above.

Lower-division Requirements: BIO 1A, 1B, 1C; CHEM 1A, 1B, 12A, 12B; MATH 3A and 3B or 10; PHYS 3A and 3B or 4A and 4B.

Refer to the UCI catalog for further details regarding this program.

UNIVERSITY OF CALIFORNIA, LOS ANGELES
Bachelor of Science in Biology

The Biology major is designed for students with a broad interest in biology and careers in a wide range of biological and health-related fields.

Lower-division Preparation: BIO 1A, 1B, 1C; CHEM 1A, 1B, 12A, 12B; MATH 3A, 3B, 10; PHYS 3A and 3B or 4A and 4B and 4C (or complete physics requirement at UCLA after transfer).

UNIVERSITY OF SOUTHERN CALIFORNIA
Bachelor of Science in Biological Sciences

Lower-division Preparation: BIO 1A and 1C; CHEM 1A, 1B, 12A, 12B; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B or 4A and 4B.

Please consult the “Transferring to USC” booklet for general education and prerequisite information (available in the Counseling Services office).

ALSO SEE BIOLOGICAL SCIENCES
Transfer Patterns

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in Business Administration

Areas of concentration for the Bachelor of Arts in Business Administration include: Accounting, Business Economics, Finance, Management, Management Information Systems, Management Science, and Marketing. A Bachelor of Arts in Economics is also offered (see Economics section).

All courses for the major must be completed with a grade of "C" or better. The credit/no credit option may not be used for courses in the major.

Lower-division Core Requirements: ACCT 1A, 1B; BUS 14, 104; CIM 1*; ECON 2, 4; MATH 3A or 11.

Collateral Requirement: One 3-unit introductory social science course chosen from CSU General Education Certification Area D (other than economics or American Institutions requirement) or select one of the following recommended courses: ANTH 2, EOG 3, PS 4, PSYC 1, or SOC 1.

*CIM 1 equivalency for this major is pending reconfirmation and approval by CSUF faculty reviewers at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

Bachelor of Arts in International Business

Lower-division Core Requirements: ACCT 1A, 1B; BUS 14, 104; CIM 1; ECON 2, 4; MATH 3A or 11.

Collateral Requirement: Complete at least one CSUF-approved collateral elective. Refer to the CSUF catalog for more details.

Competency at the level of Chinese, French, German, Japanese, or Spanish 4 is prerequisite to the required upper-division concentration courses. A Portuguese language concentration is also available at CSUF.

All courses for the major must be completed with a grade of "C" or better. The credit/no credit option may not be used for courses in the major.

Note: CSU General Education requirements: Refer to the introduction to this section of the catalog for information regarding certification of general education requirements for the California State University.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Science in Business Administration

Options at the upper-division level in Business Administration include: Accountancy; Finance, Real Estate and Law; Human Resources Management; International Business; Management; Management Information Systems; Marketing; Operations Management.

Required Lower-division Preparation: ACCT 1A; BUS 12; CIM 1; ECON 2, 4; MATH 9, 11; PHIL 12 or 15 (Note: Accountancy majors must take PHIL 15, and MIS majors must take PHIL 12).

ADD for the International Business Option: Foreign Language preparation required is two years in high school, or one year (two semesters) at the baccalaureate level of one of the following languages: Chinese, French, German, Italian, Japanese, Russian, or Spanish. The choice of language will determine the country or geographic area about which the student must study at the upper-division level after transfer. Refer to the CSULB catalog for more details.

Note: This is an impacted program. Per CSULB, a GPA of 3.0 or higher is required. Students with a GPA between 2.40 and 2.99 will only be admitted on a space available basis. Students with a GPA below 2.4 will not be admitted. Refer to the CSULB catalog for additional information.

CSU General Education requirements: Refer to the introduction to this section of the catalog for information regarding certification of general education requirements for the California State University.

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, POMONA
Bachelor of Science in Business Administration

Concentrations in Accounting; Computer Information Systems; Finance; Real Estate & Law; International Business; Management & Human Resources; Marketing; Technology & Operations Management

Lower-division Core Requirements for all Concentrations:
ACCT 1A, 1B; BUS 14; CIM 10; ECON 2, 4; MATH 10.
ADD for Accounting Concentration: ENG 1B; MATH 11.
ADD for Computer Information Systems Concentration: CIM 7A; CS 1C.
ADD for Finance, Real Estate & Law Concentration: ENG 1B; MATH 11; RE 170.
ADD for International Business Concentration: ENG 1B; and (Foreign Language Proficiency Requirement) Students must demonstrate proficiency in reading, writing, and speaking a foreign language. This requirement can be satisfied by high school and/or college-level courses, or by examination. Refer to the Cal Poly Pomona catalog for additional information.
ADD for Management & Human Resources Concentration: ENG 1B.

Note: CSU General Education requirements: Refer to the introduction to this section of the catalog for information regarding certification of general education requirements for the California State University.

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISSPO
Bachelor of Science in Business Administration

Lower-division Major courses: ACCT 1A, 1B; BUS 12 or 14.
Lower-division Support Courses: ECON 2*, 4; MATH 10*, 11*; Recommended: CIM 1 or CS 1B.
ADD for the MIS Concentration: CS 1B or CIM 7A and CS 2B or CIM 7B.

*These required support course equivalents will also satisfy general education and breadth requirements at Cal Poly SLO.

General Education and Breadth: See California State University general education certification or the Intersegmental General Education Transfer Curriculum (IGETC) sections in this catalog. Completion of general education requirements before transfer is strongly recommended.

CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO
Bachelor of Arts or Bachelor of Science in (Business) Administration

Lower-division Core Requirements for all Programs: ACCT 1A, 1B; BUS 12; CIM 1; ECON 2, 4; MATH 10; and select one course from: MATH 2, 3A, 7, 8, 11.

Accounting Information Systems (B.S. degree): ADD: CIM 142; CS (1B and 1C), 2B.
SAN DIEGO STATE UNIVERSITY

Bachelor of Science in Business Administration, Accounting, or International Business

Required Lower-division Preparation: ACCT 1A, 1B; BUS 14; ECON 1 or 10; MATH 2 and 3A or 10; PSYC 1 or SOC 1.

Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English. CSUSM also accepts American Sign Language (ASL) fulfillment in this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The language other than English and "computer competency" requirements must be met with a grade of "C" or better. Refer to the CSUSM catalog for more information.

CHAPMAN UNIVERSITY

Bachelor of Science in Business Administration, Accounting, or Economics

Required Lower-division Preparation: ACCT 1A, 1B; BUS 14; CIM 1 or 10; ECON 2, 4; MATH 2 and 3A or 11; PHIL 15.

Note: Chapman University accepts either the CSU G.E. Certification or CSU IGETC Certification in fulfillment of their Basic Subjects, Preparatory Skills, and G.E. Breadth requirements. Refer to the Chapman University Catalog for information on Chapman’s Common Requirements in foreign language and cultural heritage.

SAN DIEGO STATE UNIVERSITY

Bachelor of Science in Business Administration (majors)

Majors offered are: Accounting (B.S.), Finance (B.S.), Financial Services (B.S.), Hospitality & Tourism Management (B.S.), Information Systems (B.S.), International Business (B.A.), Management (B.S.), Marketing (B.S.), and Real Estate (B.S.).

Note: Refer to the SDSU catalog for GPA requirements and further details regarding this impacted program.

Required Lower-division Preparation for All Majors:

- ACCT 1A, 1B
- BUS 14 and BUS 104*
- CIM 1 or 10
- ECON 2 and 4
- MATH 3A* or 11** and 10

*BUS 104 is not required for Accounting or International Business majors.

**MATH 3A or 11 not required for International Business majors; MATH 11 (not MATH 3A) required for Operations Management majors.

Note: The International Business major is also designated as an impacted program and specific regulations related to admissions are imposed. Students may also complete lower-division equivalencies for the language and regional/cultural studies emphases portions of this major at Saddleback College. Please refer to the SDSU catalog for more details.

General Education Requirement: Refer to the introduction to this section of the catalog for information regarding certification of General Education requirements for the California State University.

UNIVERSITY OF CALIFORNIA, BERKELEY

Bachelor of Science in Business Administration

Minimum eligibility requirements for admission: 1) Complete all prerequisite courses listed below for letter grades; 2) Complete at least 7 of the 9 G.E. breadth requirement courses; 3) Complete the foreign language requirement; 4) Complete at least 60 UC-transferable semester units; 5) Achieve at least a 3.3 GPA overall and in the prerequisite courses.

Note: All of the required courses must be completed by the end of the spring term prior to starting at the Haas School of Business. Admissions applications are for fall semesters only and must be filed during the initial UC application filing period.

Lower-division Prerequisites:

Business: BUS 1

Computer Science: One course from: CIM 1 or 10 or CS 1A

Economics: ECON 2, 4

English: ENG 1A, 1B, 25; and one writing or literature course (see a counselor for course selection).

Math: MATH 3A

Statistics: MATH 10

General Education Breadth Requirements: IGETC does not completely satisfy G.E. breadth requirements for this major. There are specific G.E. breadth course requirements in the following categories: Arts and Humanities, Biological Sciences, International Studies, Physical Sciences; Social and Behavioral Sciences; and Foreign Language requirement.

Students are urged to contact a Saddleback College counselor, and refer to UC Berkeley’s Haas School of Business website: http://haas.berkeley.edu/Undergrad for further details, as well as ASSIST at: www.assist.org
# CIM 10 is now required at Saddleback College. CIM 1 is no longer an equivalency for this program. Credit for CIM 1 will be granted by USC only if the course was taken no later than Spring 2002.

**Completion of MATH 8 will waive USC’s MATH 117. Completion of either MATH 3A (equivalency for USC MATH 125-Calculus I) or MATH 11 will waive both USC’s MATH 117 and 118.

Please refer to the USC catalog for further details pertaining to program requirements, and the “Transferring to USC” booklet for general education and prerequisite information (available in the Counseling Services office or Career Center at Saddleback College).

## Chemistry

### CALIFORNIA STATE UNIVERSITY, FULLERTON

**Bachelor of Science in Chemistry**

The Bachelor of Science Degree in Chemistry is recommended for students planning to go directly into professional chemistry and for those who plan to do graduate work in physical, analytical, organic, or inorganic chemistry.

**Required Courses Include:** CHEM 1A, 1B, 12A, 12B; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

**Bachelor of Arts in Chemistry**

The Bachelor of Arts in Chemistry is offered for students who are planning careers which require a sound background in fundamental chemistry, but not at the depth of the Bachelor of Science degree, and is particularly suited for those who plan to go into areas such as secondary education, technical sales, food processing, chemical patent law, and forensic sciences.

**Required Courses Include:** CHEM 1A, 1B, 12A, 12B; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B.

**Note:** One year of foreign language (German, French, or Russian) is recommended for those students going on to graduate work.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

**Bachelor of Science in Chemistry**

**Lower-division Requirements:** BIO 1A; CHEM 1A, 1B; PHYS 2A, 4A, 4B, 4C; MATH 3A, 3B, 3C; select one course in programming, CS 341B is recommended though articulation is pending CSULB review and approval. Students are advised to contact the Counseling Services office.

B.S. candidates are advised to acquire competence in reading scientific German, French, Russian, Chinese, or Japanese. MATH 26 is also recommended by CSULB.

**Bachelor of Arts in Chemistry**

**Lower-division Requirements:** CHEM 1A, 1B; PHYS 2A and 2B or 3A and 3B or 4A and 4B; MATH 3A, 3B.

Computer programming requirement for this major (CSULB’s NSCI 200) may be taken after transfer. Other computer courses may be substituted with CSULB chemistry department approval.

**Bachelor of Science in Biochemistry**

**Lower-division Requirements:** CHEM 1A, 1B; BIO 1A, 1B, 1C; MATH 3A, 3B; PHYS 2A and 2B or 3A and 3B or 4A and 4B.

Computer programming requirement for this major (CSULB’s NSCI 200) may be taken after transfer. Other computer courses may be substituted with CSULB chemistry department approval.

**General Education:** Refer to the section of the catalog.

### SAN DIEGO STATE UNIVERSITY

**Bachelor of Science in Chemistry (Applied Arts & Sciences) and Certificate of the American Chemical Society**

**Lower-division Requirements:** CHEM 1A, 1B, 12A; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.

**ADD for the Emphasis in Biochemistry:** BIO 1A, 1B.

**Bachelor of Arts in Chemistry (Liberal Arts & Sciences) and Certificate of the American Chemical Society**

**Lower-division Requirements:** CHEM 1A, 1B, 12A; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.

**Foreign Language Requirement for the B.A. in Chemistry:** Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

**IMPORTANT:** Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

### UNIVERSITY OF CALIFORNIA, IRVINE

**Bachelor of Science in Chemistry**

**Lower-division Requirements:** CHEM 1A, 1B, 12A, 12B; MATH 3A and 3B; PHYS 4A and 4B.

*Students must take UCI’s CHEM 5, 151 and 151L after transfer.*

Much of the important chemical literature is printed in foreign languages, principally German, Russian, Japanese, and French. Reading competence in one or more of these languages is recommended by UCI. Students are expected to have the ability to express ideas in written English with clarity and precision. Refer to the UCI catalog or ASSIST at www.assist.org for more information regarding this major.

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

**Bachelor of Science in Chemistry**

**Required Lower-division Courses:** CHEM 1A, 1B, 12A, 12B; MATH 3A, 3B, 3C, 24; PHYS 4A, 4B, 4C.

**UNIVERSITY OF SOUTHERN CALIFORNIA**

**Bachelor of Science in Chemistry**

**Required Lower-division Courses:** CHEM 1A, 1B; MATH 3A, 3B, 3C or 26; PHYS 4A, 4B, 4C. MATH 24 may be taken to satisfy one of two required advanced electives or complete after transfer.

**Bachelor of Arts in Chemistry**

**Required Lower-division Courses:** CHEM 1A, 1B; MATH 3A, 3B, 3C, 26; PHYS 4A, 4B, 4C.

For further details regarding this major, contact USC and refer to the “Transferring to USC” booklet for general education and prerequisite information (available in the Counseling Services office).

### Child Development and Human Development

**CALIFORNIA STATE UNIVERSITY, FULLERTON**

**Bachelor of Science in Child and Adolescent Development**

The Child Development major is an upper-division degree program at CSUF. Transfer students may apply a maximum of 12 units of lower-division coursework toward the 52-unit major total, but no upper-division credit is given for any lower-division coursework.

The following courses are recommended, but any advisor-approved 12 units of transferable lower-division child development coursework will be honored: HD or SE 112; PSYC 7; SOC 15.
A student planning to transfer to CSU Fullerton’s Child Development program is advised to complete the California State University general education certification pattern including courses in general biology, general sociology, and general psychology.

Note: Students interested in elementary teaching should refer to the Liberal Studies major example in this catalog for specific requirements for the Multiple Subject Matter Preparation Program (MSMPP).

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in Communications*

Core (required for all programs listed below): JRN 1 or CA 1.
Advertising Concentration: (see core requirement) Entertainment Studies Concentration: ADD: JRN 2 Journalism Concentration (see emphases below):
Broadcast Journalism Emphasis: ADD: JRN 2; CA 128.
Public Relations Concentration: ADD: JRN 2

General education requirements may be satisfied by following the CSU certification pattern outlined in the introduction to this section of the catalog.

*The Accrediting Council on Education in Journalism and Mass Communications has set forth strict guidelines for majors in communications. It is imperative that students check the CSU Fullerton catalog under “Department of Communications,” Bachelor of Arts in Communications, for additional program requirements.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in Journalism

Students must complete ENG 1A and 1B; CA 1 or JRN 1, 2 with a minimum grade of “C” in each course for the major.

Transferable Journalism (Communication) Courses: No more than 12 (usually 9 or less) units of community college communication units may be transferred to CSULB. (Included in the 12 units will be any professional communication courses, whether listed as journalism or under any other title.)

Lower-division Preparation for the following options:
Broadcast Journalism: CA 1 or JRN 1, 2; SP 35
Journalism Education: CA 1 or JRN 1, 2
Print Journalism: CA 1 or JRN 1, 2; a foreign language is also recommended by CSULB for majors in this option.
Public Relations: CA 1 or JRN 1, 2; CSULB recommends that students in this option take as many English writing courses as possible and transfer in, or take after transfer, at least a year of foreign language.

General education: Refer to CSU certification requirements.

All students in journalism production courses must be familiar with English word process at least 40 words per minute. Photo Journalism students must know Pagemaker or another desktop publishing program. Please refer to the CSULB catalog for additional information about this major.

SAN DIEGO STATE UNIVERSITY
Bachelor of Arts Degree - Communications, Emphasis in Advertising or Public Relations

Lower-division Preparation (for both Advertising and Public Relations Emphases): CA 1 or JRN 1; ECON 2; JRN 2; PS 1, 4

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College.)
Bachelor of Arts Degree - Journalism

Lower-division Preparation: CA 1 or JRN 1; JRN 2

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

General Education: Refer to CSU certification requirements.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

ALSO SEE RADIO/TELEVISION/FILM

Communicative Disorders

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in Communicative Disorders

Lower-division Requirements: ANTH 3; MATH 10

Recommended General Education/Elective Courses: SP 1, PSYC 1 and 3.

SAN DIEGO STATE UNIVERSITY
Bachelor of Arts Degree - Communicative Disorders Major

Lower-division Preparation: PSYC 1, 3; MATH 10.

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

Note: Recommended general education course: SP 1 (see CSU certification requirements). Please refer to the SDSU catalog for more information regarding this major.

Comparative Literature

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in Comparative Literature

All requirements for the major are upper-division. Recommended preparation includes courses in British and American literature, anthropology, history, art history, music history, and philosophy. A reading knowledge in a foreign language is required. Refer to the CSU Fullerton catalog for details.

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Arts in Comparative Literature

Note: In fulfillment of the requirements below, a single course may be used only once.

Lower-division Requirements for the Major: ENG 21A, 21B.

Two years in a single language other than English at university level (or equivalent): French, German, Italian, Japanese, or Spanish 3-4; AND

School Core Requirements:

Complete ENG 1A and 1B and HUM 10A and 10B; OR

Select at least one course from each of the following areas for a total of at least four semester courses:

Writing: ENG 1A; 1B.


History: HIST 4, 5.

Philosophy: PHIL 1

G.E. Breadth requirements: Information regarding UCI G.E. breadth requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org

Computer Science

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Science in Computer Science

The degree program assumes that the student has already obtained a working knowledge of at least one high-level programming language such as Pascal and a working knowledge of personal computing fundamentals and applications, including word processing, spreadsheets, database systems, email systems, and presentation graphics. Students without this knowledge may be required to take up to seven additional units of coursework beyond that required by the major.

Lower-division Core: CS 1C or CIM 6A, CS 2B, 3B; and CIM 172A.

Requirements in Related Fields:

Mathematics Requirement: MATH 3A, 3B.

Physical Science: Select one of the following course combinations: PHYS 4A, 4B; or CHEM 1A, 1B; or GEOL 1 (plus CSUF’s Geology 201 after transfer).

Biological Science: BIO 20.

Note: Check with CSUF or Saddleback’s Counseling Services office for information regarding a “2+2” transfer program for this major.

CSU General Education requirements are listed in the introduction to this section of the catalog.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Science in Computer Engineering

Lower-division Preparation: CS 1B*, 2B, (4A* or CIM 7A*); MATH 3A; PHYS 4A, 4B.

Bachelor of Science in Computer Science

Lower-division Preparation: CS 1B*, 2B, (4A* or CIM 7A*); MATH 3A, 26; PHYS 4A, 4B; and two CSULB advisor-approved courses in science or with a strong emphasis in quantitative methods or take after transfer.

*Equivalency for CS 1B, 4A, and CIM 7A pending CSULB approval at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

SAN DIEGO STATE UNIVERSITY
Bachelor of Science in Applied Arts and Sciences - Computer Science Major

Lower-division Preparation: CS 1B, 2B, 3A, 3B; MATH 3A, 3B, 10, 26; and select one sequence from the following: PHYS 4A, 4B; or CHEM 1A and 1B; or *BIO 1A-1B-1C, (*BIO sequence/courses must be completed prior to transfer); two additional science courses selected with SDSU advisor approval or take after transfer.

Refer to the CSU General Education certification section for additional courses which should be completed prior to transfer.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Science - Information and Computer Science Major

There is a limit on the number of applicants admitted into the major at UCI. Preference is given by UCI to junior-level applicants with the highest grades overall. UCI strongly recommends that transfer students enter this major with knowledge of Java as it is used in most programming-related courses.

Lower-division Requirements: CS 1A and 2B and CIM 7A* and CS 1C (students must complete all four of the preceding courses to
receive credit for UCI’s ICS 21-22-23 sequence); CS 3A and 3B also required to receive credit for UCI’s ICS 51; MATH 3A, 3B, 26.

*CIM 7A (Business Programming; JAVA Beginning) is currently approved as an equivalency for this major. CS 4A (Introduction to JAVA for Computer Science) is pending UCI approval at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

Also refer to the UC Irvine catalog or the ASSIST website for further details regarding this major. Lower-division requirements listed above should be completed prior to transfer. Information regarding UCI G.E. breadth requirements is available in Saddleback’s Counseling Services office or refer to the ASSIST website at: www.assist.org

UNIVERSITY OF CALIFORNIA, LOS ANGELES
(Refer to the Engineering section for transfer pattern examples)

UNIVERSITY OF CALIFORNIA, SAN DIEGO
(The following programs are impacted at UCSD and transfer admission may be restricted)

Bachelor of Arts in Dance
Lower-division Requirements: CS 2B, 4A*, MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

Bachelor of Science in Computer Science
Lower-division Preparation: BIO 20 or CHEM 1A; CS 2B, 4A*, MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

Bachelor of Science in Computer Science
Lower-division Preparation: BIO 20 or CHEM 1A; CS 2B, 4A*, MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

*CS 4A (Introduction to JAVA for Computer Science) is pending UCSD approval at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

Per UCSD, Computer Science and Engineering (CSE) majors are highly impacted and subject to special screening criteria. For details regarding program requirements and GPA, refer to the UCSD catalog, Counseling Services at Saddleback College, or the ASSIST website at: www.assist.org

Dance
CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in Dance
Lower-division Requirements: PE or TA 53*, 55* or 56*.
Electives: Students are to complete a minimum of eight elective units, including at least one course from each category below:
Category I: ART 20; CIM 112; MUS 20; PE or TA 50*, 61*, 62*; TA 20
Category II: TA 42.
*Each course listed must be taken for at least 2 units.
General Education: Refer to the general education certification requirements listed in the introduction to this section of the catalog.

SAN DIEGO STATE UNIVERSITY
Bachelor of Arts–Dance (Degree in Liberal Arts & Sciences)
Lower-division Preparation: PE or TA 64; PPE 9, 10, 11; and ANTH 2; BIO 11; PSYC 1.

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Note: No more than 64 units in dance courses can apply to the degree. Refer to the SDSU catalog for more details regarding program requirements for this major.

General Education: Refer to CSU certification requirements.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Arts or Bachelor of Fine Arts in Dance
The Department of Dance at UC Irvine offers two degrees: the Bachelor of Arts in Dance (B.A.) and the Bachelor of Fine Arts in Dance (B.F.A.). The B.A. program provides a broad background in dance theory and practice. The B.F.A. program allows students to specialize in either choreography or performance.

Dance Majors: After transfer to UC Irvine, all students are required to audition for enrollment in the major and for appropriate placement level in ballet, jazz, and modern dance performance. This placement level determines the minimum amount of years it will take to complete degree requirements. It is strongly recommended that students have dance technique experience in preparation for placement auditions.

Recommended Lower-division Preparation: PE 52, 55, 58 or 59 (subject to audition)

Lower-division Requirements for Both Degree Programs: PE 63 and (64 or TA 64—one quarter towards UCI’s 90A-B-C, Dance History sequence); PPE 9; and one course selected from: PE 60 or 61 or 62.

Refer to the UC Irvine catalog or the ASSIST website for further details regarding this major. Information regarding UCI G.E. breadth requirements is available in Saddleback’s Counseling Services office or refer to the ASSIST website at: www.assist.org

Dental Hygiene
LOMA LINDA UNIVERSITY
Dental Hygiene Entrance Curriculum Requirements (Meet LLU)
General Education B.S. Requirements:

SCIENTIFIC INQUIRY & ANALYSIS:
Natural Sciences (minimum 15 semester units): BIO 11, 12, 15; CHEM 108; and one transferable math course.

Social Sciences (minimum 8 semester units, which must include two areas): ANTH 2 and SOC 1 (required); and select one transferable course from the following areas: political science, psychology, anthropology, economics, geography.

SPIRITUAL & CULTURAL HERITAGE:
Cultural: (minimum 14 semester units, which must include two areas): Select any transferable course from the following areas: history/civilization, fine arts (theory coursework), literature, philosophy, foreign language.

Religion: (minimum 3 semester units): Recommended to be taken after transfer.

COMMUNICATION SKILLS: (minimum of 9 semester units) ENG 1A and 1B (required); select one course: SP 1 or 2 or 5.

HEALTH & WELLNESS: HLT 1; and select two PE activity courses.

ELECTIVES: Select electives to complete 64-unit entrance requirements

Students are advised to contact Loma Linda University for further details regarding this program.

Note: Information is available in the Saddleback College Counseling Services office regarding lower-division preparation for area community college dental hygiene programs (e.g., Cerritos College and Cypress College).
Dentistry (Pre-Dental)

There are five dental schools in California: University of California, San Francisco and Los Angeles; The University of Southern California; Loma Linda University; and University of the Pacific.

High scholastic ability and manual dexterity are among the selection criteria for admission. Candidates selected for admission to dental schools have generally completed three or four years of a rigorous pre-dental program. No particular major is required as long as a minimum of preparation represented by the following composite of courses is included.

*Recommended Lower-division Preparation:
  - CHEM 1A, 1B, 12A, 12B,
  - PHYS 2A-2B or PHYS 3A-3B or PHYS 4A-4B-4C,
  - BIO 1A, 1B,
  - ENGL 1A, 1B,
  - PSYC 1 and one additional psychology course.

12 to 15 additional units in social sciences and/or humanities.

The physics sequences and additional social sciences or humanities courses should be selected based on requirements for the major and general education pattern for the institution of intended transfer. Pre-dental students are advised to make normal progress toward a bachelor’s degree. Always refer to the catalog of the college or university offering your intended major and to the bulletin for a given dental school for specific program requirements and coursework.

Design

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Fine Arts in Art – Option in Interior Design

The BFA in Interior Design is offered as preparation for the student who will eventually seek the Master’s degree or a position as a professional designer. The BFA program is a rigorous and competitive one. Portfolio review is required for admission to the professional BFA program. Students must achieve a “C” or better in each required design course to progress in the sequence of study. Refer to the CSULB catalog for further details regarding program requirements.

Lower-division Preparation: ART 25, 26, 41; ARCH 124A; ID 116, (120 or 121), (123 and 133), 127. Note: Students are advised to consult with a CSULB program advisor regarding selection of elective courses.

Bachelor of Science in Industrial Design

This degree program focuses on the relationship between technology and the visual arts. Portfolio review is required for admission to the program. Students must achieve a “C” or better in each required design course to progress in the sequence of study. Refer to the CSULB catalog for further details regarding program requirements.

Lower-division Preparation: ART 25, 26, ID (123 and 133). Note: Students are advised to consult with a CSULB program advisor regarding selection of elective courses.

General Education: Refer to the general education certification requirements listed in the introduction to this section of the catalog.

ALSO SEE INTERIOR DESIGN

Dietetics and Food Administration

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Science in Dietetics and Food Administration

The degree program consists of three options: Nutrition and Dietetics, Food Science, and Hospitality Foodservice and Hotel Management.

Nutrition and Dietetics Option: BIO 12, 15; CHEM 1A; ENG 1A, 1B; FN 50, 110, 171; PSYC 1; SOC 1.

Food Science Option: BIO 12, 15; CHEM 1A, 1B; CS 12; ENG 1B; FN 50, 110; PHYS 2A or 3A; PSYC 1 or SOC 1; SP 5.

Hospitality Foodservice and Hotel Management Option: ACCT 1A; BIO 12 or 113; CHEM 1A or 108 or 120; CIM 1; ECON 2, 4 (formerly 1); ENG 1A; FN 50, 110, 171; MATH 10; PHIL 12 or ENG 1B, PHIL 15; PSYC 1 or SOC 1; REC 100; SP 5.

SAN DIEGO STATE UNIVERSITY

Bachelor of Science in Applied Arts and Sciences with Foods and Nutrition Major

ACCT 1A; BIO 15, 20; CHEM 1A and 1B or 108; MATH 10; PSYC 1; SOC 1. FN 50 is recommended.

Refer to the California State University general education certification pattern for additional specific requirements which should be completed prior to transfer.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

ALSO SEE FAMILY AND CONSUMER SCIENCES

Drama—Theatre Arts

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Arts in Theatre Arts

Liberal Arts Concentration:

Lower-division Preparation: TA 1, 20, 40, 42, 45; and select at least two courses from: TA 2, 11, (35 or SP 35).

Production/Performance Concentration:

Acting Emphasis: TA 1, 2, 11, 20, (30 or SP 30), (35 or SP 35), 40, 42.

Directing Emphasis: TA 1, 2, 11, 20, (35 or SP 35), 40, 42, 45.

Entertainment Studies Emphasis: TA 1, 20, 40, 42; also: ACCT 1A; BUS 14; CA 1 or JRN 1.

Playwriting Emphasis: TA 1, 20, (30 or SP 30), TA 40 or 42, 45.


Teaching Concentration (Single Subject):

TA 1, 2, 11, (35 or SP 35), 20, 40, 42, 45. Refer to the CSUF catalog for details.

Bachelor of Fine Arts in Theatre Arts

Musical Theatre Concentration:

All applicants for the BFA degree must complete the following courses with a “B” or better grade in each course, for entry into the degree program, as well as an audition which will consist of acting, singing, and dance: TA 1, 2, 11, (35 or SP 35); also complete the following courses:

- TA 20, 40 or 42 or 45; MUS 10; and PE or TA 53*, 59*, or 62* (minimum two units each course).

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Arts in Theatre Arts

All incoming students are required to audition (in the case of the performance option) or interview (in the case of all other options).

Lower-division Core Required for all Majors and Options: TA 40, 41, 42, 43; Recommended electives: TA 1, 2.

General Option - ADD: TA 3, 11, (35 or SP 35).

Performance (Acting) Directing Option: ADD TA 3, 11, (35 or SP 35).
Bachelor of Arts in Applied Arts and Sciences-Theatre Arts Majors

General Theatre Arts: TA 1, 2, (25 or 26), 35, 40*, 41*, 42*, 43*.

Children’s Drama: TA 1, (25 or 26), 35, 40*, 41*, 42*, 43*.

Design and Technology for Theatre: TA 1, (25 or 26), 35, 40*, 41*, 42*, 43*.

Design for Television and Film: TA 1, 40*, 41*, 42*, 43*.

Performance: TA 1, 2, (25 or 26), 35, 40*, 41*, 42*, 43*.

Bachelor of Science in Earth Science

Emphases:

- Geohydrology/Environmental Geology: GEOL 1, 2; MATH 3A, 3B, 3C; and PHYS 4A, 4B.

- Design for Television and Film: GEOL 1, 2, 35.

Required Lower-division Core Courses:

- A grade of “C” or better in all coursework required for the major.

- Requirements may be certified by completing the pattern outlined in the introduction to this section.

- Two courses in dance are required. These may be selected from PE or refer to the ASSIST website at: www.assist.org

- The SDSU recommends completion prior to transfer.

- IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

- General Education requirements: For CSUF, CSULB, or SDSU it is recommended that students refer to the catalog for the campus of choice and also complete the CSU General Education certification pattern outlined in the introduction to this section.

Economics

Bachelor of Arts in Liberal Arts and Sciences - Economics Major

Core Requirements: CIM 10 or (CIM 2A and 10) or CS 1C; ECON 2, 4; MATH 3A and 3B; and

Two introductory social science courses from the following: ANTH 1, 2, 3, 9; GEOG 1, 2, 3; PS 4; PSYC 1; SOC 1; and

One additional social science course from the following, which may include introductory social science courses not taken above: ANTH 4, 6, 7, 10, 13, 21; CCS 1, 2; ECON 11, 20; ENV or ECON 6; GEOG 38; PS 1, 3, 10, 11, 12, 14, 17, 21, 61, 75; SO 5, 80; PSYC 2, 3, 7, 16, 21, 30, 35, 37; SOC 2, 4, 5, 6, 10, 15, 20, 21, 25, 30.

- Required Lower-division Core Courses: ACCT 1A; BUS 104; CIM 1*; ECON 2; 4; MATH 3A or 3B or 11 or ACCT 1B.

- *CIM 1 equivalency for this major is pending reconfirmation and approval by CSUF faculty reviewers at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

GENERAL EDUCATION:

- Refer to California State University general education requirements in this catalog.

- ALSO SEE GEOLOGY

California State University, Fullerton

Bachelor of Arts in Economics

All Lower-division Core Requirements must be completed with a grade of "C" or better.

Required Lower-division Core Courses: ACCT 1A; BUS 104; CIM 1*; ECON 2; 4; MATH 3A or 3B or 11 or ACCT 1B.

*CIM 1 equivalency for this major is pending reconfirmation and approval by CSUF faculty reviewers at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

California State University, Long Beach

Bachelor of Arts in Economics

Required Lower-division Courses: ACCT 1A; ECON 2, 4; MATH (3A or 11); and a minimum of two courses outside of economics from: ANTH 2; GEOG 3; HS 100; MATH 2, 9, 3B, 3C; PS 4; PSYC 1; SOC 1, or complete after transfer.

General Education: Refer to California State University general education requirements in this catalog.

California State University, San Marcos

Bachelor of Arts in Economics

Preparation for the Major: ECON 2, 4; MATH 11.

- Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of “C” or better. Refer to the CSUSM catalog for more information.

San Diego State University

Bachelor of Arts in Liberal Arts and Sciences - Economics Major

Lower-division Preparation: ACCT 1A; CIM 1 or 10; ECON 2, 4; MATH 10; one course from MATH 3A or 11.

- Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

General Education: San Diego State University general education requirements may be certified by completing the pattern outlined in the introduction to this section of the catalog.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

University of California, Irvine

Bachelor of Arts in Liberal Arts and Sciences - Economics Major

- Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of “C” or better. Refer to the CSUSM catalog for more information.

University of California, Los Angeles

Bachelor of Arts in Economics

Core Requirements: CIM 10 or (CIM 2A and 10) or CS 1C; ECON 2, 4; MATH 3A and 3B; and

Two introductory social science courses from the following: ANTH 1, 2, 3, 9; GEOG 1, 2, 3; PS 4; PSYC 1; SOC 1; and

One additional social science course from the following, which may include introductory social science courses not taken above: ANTH 4, 6, 7, 10, 13, 21; CCS 1, 2; ECON 11, 20; ENV or ECON 6; GEOG 38; PS 1, 3, 10, 11, 12, 14, 17, 21, 61, 75, 80; PSYC 2, 3, 7, 16, 21, 30, 35, 37; SOC 2, 4, 5, 6, 10, 15, 20, 21, 25, 30.

- Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of “C” or better. Refer to the CSUSM catalog for more information.

University of California, San Diego

Bachelor of Arts in Economics

Preparation for the Major: ECON 2, 4; MATH 11.

- Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of “C” or better. Refer to the CSUSM catalog for more information.

University of California, Santa Barbara

Bachelor of Arts in Economics

- Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of “C” or better. Refer to the CSUSM catalog for more information.

University of California, Santa Cruz

Bachelor of Arts in Economics

- Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of “C” or better. Refer to the CSUSM catalog for more information.

University of California, Davis

Bachelor of Arts in Economics

- Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of “C” or better. Refer to the CSUSM catalog for more information.

University of California, Merced

Bachelor of Arts in Economics

- Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of “C” or better. Refer to the CSUSM catalog for more information.
Refer to the UC Irvine catalog or the ASSIST website for further details regarding this major. Information regarding UCI G.E. breadth requirements is available in Saddleback’s Counseling Services office or refer to the ASSIST website at: www.assist.org

UNIVERSITY OF CALIFORNIA, LOS ANGELES
Bachelor of Arts in Economics
Lower-division Preparation: ECON 2, 4; ENG 1B; MATH 3A, 3B, 10.

UNIVERSITY OF CALIFORNIA, RIVERSIDE
Bachelor of Arts in Economics
Economics: ECON 2, 4; MATH 3A, 3B.
Economics/Administrative Studies: ACCT 1A; BUS 1; CIM 1 or CS 1A; ECON 2, 4; MATH 3A or (8 and 11).
Economics/Law and Society: ECON 2, 4; PHIL 12.; PSYC 2.
Bachelor of Arts in Business Economics
Lower-division Requirements: ACCT 1A, 1B; ECON 2, 4; MATH 3A, 3B.
In addition to lower-division requirements listed above, UCR recommends completion of the Intersegmental General Education Transfer Curriculum (IGETC).

ELEMENTARY EDUCATION
Education is not an acceptable undergraduate major for a California Teaching Credential. Prospective elementary teachers may elect to choose a single-subject academic major, but they will be required to pass The Multiple Subject Assessment Test (MSAT), which is a general subject matter examination covering knowledge of English, social science, fine arts, general science, and mathematics. An approved multiple-subjects major can be used to waive the examination requirements. Refer to the Liberal Studies major for an approved major designed to waive the examination requirements for elementary teaching. Some four-year institutions provide multiple-subjects waiver programs for students who complete single-subject majors along with an expanded general education/breadth program covering the four general subject matter areas indicated above (e.g., CSU Fullerton, UC Los Angeles, or UC San Diego).
A preliminary multiple subject credential may be obtained authorizing service for a maximum of five years, but a fifth year of study consisting of a minimum of 30 units beyond the bachelor’s degree is required to obtain a “clear” credential.

SECONDARY EDUCATION
The student planning to teach at the secondary level (grades 7 through 12) should complete a major in subject matter commonly taught at the secondary level. Subject matter competency is verified by achieving a passing score on the appropriate subject matter examination, or completing a California Commission on Teacher Credentialing-approved subject matter program (major), or its equivalent.
Applications for admission to teacher education programs should be made during the first semester of the junior year. A preliminary credential authorizing service for a maximum of five years can be obtained along with the bachelor’s degree and approved education courses, but a fifth year of study consisting of a minimum of 30 units beyond the bachelor’s degree is required to complete a “clear” credential.
Specialist credentials (e.g., early-childhood, reading, special education, administrative services, or library services), normally require completion of a valid teaching credential program or admission to a graduate-level program.
Community college teaching positions normally require the completion of the minimum of a master’s degree in subject matter taught. For teaching in occupational areas, work experience can be used to waive portions of educational requirements.
Information on preparation for a career in teaching is available in Saddleback College’s Counseling Services office or the Career Center.
Note: Interested students are advised to access the California Commission on Teacher Credentialing (CTC) website at: www.ctc.ca.gov as well as contacting the Education department of the transfer institution.

Engineering
CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Science Degree in Civil Engineering*
Bachelor of Science Degree in Electrical Engineering*
Bachelor of Science Degree in Engineering/Option in Engineering Science
Bachelor of Science Degree in Mechanical Engineering*
Required Foundation Courses in Math and Science for All Majors: CHEM 1A; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B.
ADD: PHYS 4C for the Electrical Engineering major and the Engineering Science option.
ADD: CHEM 1B for the Civil Engineering major.
ADD: PHYS 4C for the Mechanical Engineering major.
Engineering Core Courses for All Majors: CS 12; DR 23; ENGR 31, 33.
*Check with CSUF or Saddleback’s Counseling Services office for information regarding “2+2” transfer programs for the B.S. degrees in Civil Engineering, Electrical Engineering, and Mechanical Engineering as well as CSUF’s general education requirements for the Engineering program.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Science (majors listed below)
Aerospace Engineering: CHEM 1A; CS 1B*; ENGR 31, 33; MATH 3A, 3B, 3C, PHYS 4A, 4B.
Chemical Engineering: CHEM 1A, 1B; CS 12; ENGR 31, 33; MATH 3A, 3B, 3C, PHYS 4A, 4B; and select one course from BIO 1A or 15.
Civil Engineering: BIO 15 or 20; CHEM 1A; CS 12; ENGR 31, 33; MATH 3A, 3B, 3C, PHYS 4A, 4B.
Computer Engineering: CS 1B*, 2B; ENGR 33; MATH 3A; PHYS 4A, 4B; Recommended: ENGR 33.
Electrical Engineering: CS 1B*; ET 114; ENGR 33; ENG 1A; MATH 3A, 3B, 3C, PHYS 4A, 4B.
Engineering: Option in Biomedical and Clinical Engineering: BIO 12; CHEM 1A; CS 1B*; ET 114; ENGR 33; ENG 1A; MATH 3A, 3B, 3C, PHYS 4A, 4B.
*Equivalency for CS 1B pending CSULB approval at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949)682-4435.
Mechanical Engineering: CHEM 1A; CS 12; ENGR 31, 33; MATH 3A, 3B, 3C, PHYS 4A, 4B.
CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO
Bachelor of Science in Civil Engineering
Lower-division Support Courses: CHEM 1A*, 1B*; CS 12; ENGR 31, 33; GEOL 1; MATH 3A*, 3B*, 3C, 24; PHYS 4A*, 4B, 4C.
Bachelor of Science in Electrical Engineering
Lower-division Major Courses: ENGR 33.
Lower-division Support Courses: CHEM 1A*; CS 1B or CS 4A# or CIM 7A; ENGR 31; MATH 3A*, 3B*, 3C, 24; PHYS 4A*, 4B, 4C.

Bachelor of Science in Engineering Science (General)
Lower-division Major Courses: CS 1B or CS 4A# or CIM 7A; ENGR 31, 33.
Lower-division Support Courses: CHEM 1A*, 1B*, MATH 3A*, 3B*, 3C, 24; PHYS 4A*, 4B, 4C.
#CS 4A is pending Cal Poly San Luis Obispo approval at the time of catalog publication deadlines. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

*Course equivalents listed above also apply toward SLO’s general education and breadth requirements.

SAN DIEGO STATE UNIVERSITY
Bachelor of Science (Engineering majors listed below)
The College of Engineering has undergraduate programs in aerospace, civil, computer, electrical, environmental, and mechanical engineering.

Aerospace Engineering: CHEM 1A; MATH 3A, 3B, 3C; ENGR 31; PHYS 4A, 4B, 4C.
Civil Engineering: CHEM 1A; ENGR 31; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.
Computer Engineering: CS 1B, 2B, 3A*, 3B*; ENGR 33, 35; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.
Electrical Engineering: CHEM 1A; CS 1B, 3A*, 3B*; ENGR 33, 35; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.
Environmental Engineering: BIO 1A*, 1B*; CHEM 1A; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.
Mechanical Engineering: CHEM 1A; ENGR 31; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C.

*Both courses marked with an (*) must be taken to receive credit for SDSU course equivalency.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Science (Engineering majors listed below)
Please check for the most current information with Saddleback College’s Counseling Services office, or the ASSIST website at: www.assist.org

Lower-division Requirements:
Engineering (General): CS 1B or 12; CHEM 1A, 1B; ENGR 31, 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.
Civil Engineering: CHEM 1A; CS 1B and 1C; ENGR 31; MATH 3A, 3B, 3C, 24, 26; PHYS 4A*; select one course from CHEM 1B or PHYS 4B; and one course from: BIO 1A, GEOL 1, 5, 20 or PHYS 4C.
Computer Engineering: CHEM 1A; CS 1A and 1C and 2B must be taken to receive credit for UCI’s ICS 23; CS 1B; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.
Electrical Engineering: CHEM 1A; CS 1B; ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A*, 4B, 4C.
Environmental Engineering: BIO 1A; CHEM 1A, 1B, 12A; CS 1B or 12; DR 151; ENGR 31; MATH 3A, 3B, 3C, 24, 26; PHYS 4A.
Mechanical Engineering: CHEM 1A, 1B; CS 1B or 12; DR 151; ENGR 31, 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C.

Per UCI, preference will be given to junior-level applicants with the highest grades overall. Students are advised to complete the lower-division degree requirements prior to transfer.

Information regarding UCI G.E. breadth requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org

UNIVERSITY OF CALIFORNIA, LOS ANGELES
Bachelor of Science (Engineering Majors)
UCLA’s School of Engineering & Applied Science (SEAS) offers the following majors: Aerospace Engineering, Chemical Engineering, Civil Engineering, Computer Science, Computer Science & Engineering, Electrical Engineering, Materials Engineering, Mechanical Engineering.

Note: IGETC is not recommended for this major. SEAS does not require completion of General Education requirements prior to transfer; however, it is to the applicant’s advantage to complete as many of the following as possible: one life science course (two for Computer Science major); four (six for Computer Science) courses from Social Sciences & Humanities. It is recommended that students distribute courses evenly between Social Sciences & Humanities.

Students are advised to contact the School of Engineering & Applied Sciences (SEAS) at UCLA, or the Saddleback College Counseling Services office for further details regarding G.E. requirements.

Lower-division Major Preparation for the following programs:
Aerospace Engineering: CHEM 1A, 1B; CS 12 (FORTRAN preferred) or CS 1B, 1C; ENG 1A, 1B; ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A-4B-4C (complete the entire sequence).
Chemical Engineering: CHEM 1A, 1B, (in addition, UCLA recommends completion of CHEM 12A and 12B prior to transfer); CS 12 (FORTRAN preferred) or CS 1B, 1C; ENG 1A, 1B; ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A-4B-4C (complete the entire sequence).
Civil Engineering: CHEM 1A, 1B; CS 12 (FORTRAN preferred) or CS 1B, 1C; ENG 1A, 1B; ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A-4B-4C (complete the entire sequence).
Computer Science: CHEM 1A (not required, but can be used to satisfy one of two life science electives required for this major); ENG 1A, 1B; CS 1C and 2B, 3A and 3B; MATH 3A, 3B, 3C, 24, 26; PHYS 4A-4B-4C (complete the entire sequence).
Computer Science & Engineering: CHEM 1A; ENG 1A, 1B; CS 1C and 2B, 3A and 3B; ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A-4B-4C (complete the entire sequence).
Electrical Engineering: CHEM 1A*, 1B* (CHEM 1A only required for the Computer Engineering option); CS 1C; (add CS 2B, 3A and 3B for the Computer Engineering option); ENG 1A, 1B; ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A-4B-4C (complete the entire sequence).
Materials Engineering: CHEM 1A, 1B; ENG 1A, 1B; ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A-4B-4C (complete the entire sequence); and select one from: CS 1B, 1C, 12.
Mechanical Engineering: CHEM 1A, 1B; CS 12 (FORTRAN preferred) or CS 1B or 1C; ENG 1A, 1B; ENGR 33; MATH 3A, 3B, 3C, 24, 26; PHYS 4A-4B-4C (complete the entire sequence).

Engineering Technology

Engineering technology is that part of the technological field which requires the application of scientific and engineering knowledge and methods combined with skills in support of engineering activities; it lies in the occupational spectrum between craftsman and the engineer at the end of the spectrum closest to the engineer.
CALIFORNIA STATE UNIVERSITY, LONG BEACH

(Students must complete lower-division program coursework with a “C” or better.)

Bachelor of Science in Engineering Technology

The Engineering Technology program at CSULB offers the following options: Environmental Technology, Manufacturing Technology, and Quality Assurance Technology.

Lower-division Requirements: CHEM 1A; CIM 1; DR 23 or 150; MATH 2, 10; PHYS 2A and 2B or 3A and 3B.


Bachelor of Science in Electronics & Computer Technology

Lower-division Requirements: CHEM 1A; CIM 1; CS 1B; DR 23 or 150; ET 114; MATH 10; PHYS 2A and 2B or 3A and 3B.

*Additional lower-division Engineering & Technology (ET) coursework to be completed at CSULB after transfer. Refer to the CSULB catalog for further information.

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

Bachelor of Science in Engineering Technology (ET)-Programs in:

Environmental Technology, Manufacturing Technology, Quality Assurance Technology.

Lower-division Preparation for programs noted: CHEM 1A; CS 1B; DR 100, 102, 120; ENGR 31; MATH 124; PHYS 2A and 2B or 3A and 3B.

Refer to the Cal Poly Pomona catalog for additional information regarding this program.

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Arts English

ENG 1A and a maximum of 12 units from the following recommended courses may be selected. In addition to ENG 1A, students must complete at least 30 units of upper-division coursework after transfer to fulfill the 42 units required for the major. Students are urged to consult with a faculty advisor in the Department of English and Comparative Literature at CSUF.

*Lower-division Course Selection: ENG 15A, 15B, 17A, 17B, or other transferable courses selected with CSUF advisor approval. *No upper-division credit will be granted for lower-division coursework.

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Arts in English

Options include Creative Writing, English Education/Single Subject Teaching Credential, Language and Linguistics, Literacy and Composition, Literature.

Creative Writing Option: ENG 1B and 25, 4 or 5; 17A and 17B

English Education/Single Subject Teaching Credential Option: ENG 1B and 25, 17A or 17B

Language/Linguistics Option: ENG 1B and 25, 17A or 17B

Literacy and Composition Option: ENG 1B and 25, 17A and 17B

Literature Option: ENG 1B and 25, 17A and 17B

Saddleback College’s ENG 1A equates to CSULB’s English 100 which satisfies CSULB’s G.E. requirements.

CSULB recommends competency in a foreign language for all options, especially if graduate work is contemplated. Please refer to the CSULB college catalog for further details regarding these programs.

SAN DIEGO STATE UNIVERSITY

Bachelor of Arts–English Major

This is an impacted major. Refer to the SDSU catalog for selection criteria and GPA requirements.

Lower-division Preparation for the Major: ENG 1A, 17A, 17B; one course from ENG 21A, 21B, 25; one course from: ENG 3, 4, 5, 15A, 15B.

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

Note: For CSU Fullerton, CSU Long Beach, or San Diego State University, CSU General Education certification should be completed following the pattern outlined in the introduction to this section of the catalog. Additional recommended electives for these programs include additional courses in writing, literature, and history.

UNIVERSITY OF CALIFORNIA, IRVINE

Bachelor of Arts in English

Note: In fulfillment of the requirements below, a single course may be used only once.

Lower-division Requirements for the Major: ENG 15A-15B or 17A-17B or 21A-21B; AND

Two years in a single language other than English at university level (or equivalent): French, German, Italian, Japanese, or Spanish 3–4; AND

School Core Requirements:

Complete ENG 1A and 1B and HUM 10A and 10B; OR

Select at least one course from each of the following areas for a total of at least four semester courses:

Writing: ENG 1A, 1B


History: HIST 4, 5

Philosophy: PHIL 1

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Bachelor of Arts or Bachelor of Science in Environmental Science

Environmental Science Core Requirements: ENV 1; CHEM 1A, 1B; MATH 2; PS 1.

ENG 1A and 1B recommended by UCR prior to transfer (breadth requirement).

In addition, students must meet requirements for one of the following four options:

For Social Science Option ADD to the Core above: BIO 20; ECON 4; GEOG 1 or GEOG 1 and 1L; MATH 8 and 11.

Environmental Toxicology Option ADD: BIO 1A, 1B, 1C; CHEM 12A, 12B; ECON 6 or ENV 6; GEOG 1 or GEOG 1 and 1L; MATH 3A, 3B; *PHYS 3A and 3B or 4A-4B-4C.

Natural Science Option ADD: BIO 1A, 1B, 1C; CHEM 12A, 12B; ECON 6 or ENV 6; GEOG 1 or GEOG 1 and 1L; MATH 3A, 3B; *PHYS 3A and 3B or 4A-4B-4C.

Soil Science Option ADD: BIO 1A, 1B, 1C; CHEM 12A, 12B; ECON 6 or ENV 6; GEOG 1 or GEOG 1 and 1L; GEOG 6 recommended by UCR; MATH 3A, 3B; *PHYS 3A and 3B or 4A-4B-4C.

*Completion of entire sequence preferred by UCR.
Note: Students selected for this major will need to present an overall GPA of at least 2.70 in all UC-transferable coursework. IGETC is not recommended by UCR. For further details regarding specific program and transfer requirements and information pertaining to minimum selection criteria for this major, please refer to the UCR catalog or contact Saddleback College’s Counseling Services office, and the ASSIST website at: www.assist.org.

Environmental Studies

Preprofessional transfer students who plan to work in an environmentally-related field are advised to (1) select a major in another academic discipline, such as biology, biochemistry, chemistry, political science, public administration, anthropology, industrial technology, architecture, horticulture, or business administration; (2) select recommended environmental studies (ENV) courses as support to general education or elective units as follows: ENV 1 (Introduction to Environmental Studies) or ENV 18 or BIO 18 (Introduction to Ecology); ENV 24 or BIO 24 (Natural History of California).

Contact the Technology and Applied Science division at Saddleback College for further information regarding the availability of environmental studies courses which are cross-listed with several other academic disciplines (e.g., biology, chemistry, economics, and geology) or for information about the Volunteer Park Naturalist Training program.

UNIVERSITY OF CALIFORNIA, SANTA CRUZ
Bachelor of Arts in Environmental Studies

Lower-division Preparation: ANTH 2 or PHIL 15 or SOC 1; BIO or ENV 18; CHEM 1A or 3; ECON 2 or 4; MATH 2, 10; PS 1 or 4 or 14.

Transfer students who wish to major in Environmental Studies will be considered for the fall quarter only. For further information regarding this major, refer to the UCSC catalog and the ASSIST website at: www.assist.org.

Ethnic Studies

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts Ethnic Studies - Option in Afro-Ethnic Studies

Lower-division Preparation: HIST 20 or 81 or SOC 20

Bachelor of Arts Ethnic Studies - Option in Chicano Studies

Lower-division Preparation: HIST 30; SOC 4 or HIST 33; and select a minimum of 12 units from the following CSUF recommended electives, or consult a CSUF program advisor: ENG 23B; HIST 20 or SOC 20, HIST 27, 28.

Bachelor of Arts Latin American Studies

All students should develop a language proficiency level which is the equivalent of SPAN 4 and Fullerton’s Portuguese 102. Students with no language background should take SPAN 1-4 at Saddleback College. However, a student with knowledge of Spanish and/or Portuguese may be able to meet part or all of the foundation course requirements by taking a test administered by the Department of Foreign Languages and Literature at CSU Fullerton.

UNIVERSITY OF CALIFORNIA, RIVERSIDE
Bachelor of Arts in Ethnic Studies

Lower-division Core Requirement for all Emphases: HIST 20 or SOC 20; and select one course from the following: ANTH 4; HIST 81; SOC 4, 5.

In addition to the lower-division requirements listed above, students are advised by UCR to complete the IGETC prior to transfer.

Family and Consumer Sciences

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in Family and Consumer Sciences

Child Development and Family Studies Option: ANTH 2 or SOC 1; BIO 12 or 113; FN 50; HD 110, 120; PSYC 1; Recommended electives: FASH 140, FN 171.

Consumer Affairs Option: ACCT 1A; ECON 2, 4; ENG 1B; MATH 10; PSYC 1; SOC 1.

Note: Per CSULB any course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. Refer to the CSULB catalog for further information.

Refer also to the heading Dietetics and Food Administration and Fashion Merchandising in this section of the catalog for information on additional programs offered at CSULB, as well as the section outlining CSU general education requirements.

Fashion Merchandising

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in Family and Consumer Sciences with the following options:

Fashion Merchandising Option

Lower-division Major Requirements: ACCT 1A; CHEM 1A or 120; ECON 2, 4; FASH 101, 140, 160; PSYC 1; SOC 1 or ANTH 2.

Textiles and Clothing Option

Lower-division Major Requirements: CHEM 1A or 120; ECON 2, 4; FASH 101, 110, 130, 140, 160; PSYC 1; SOC 1 or ANTH 2.

Note: Per CSULB any course in which a grade lower than "C" is received must be retaken and successfully completed prior to enrolling in any course for which it is a prerequisite. Refer to the CSULB catalog for further information.

Foreign Languages—French, German, or Spanish

CALIFORNIA STATE UNIVERSITY, FULLERTON (CSUF)+
CALIFORNIA STATE UNIVERSITY, LONG BEACH (CSULB)++

Bachelor of Arts in French, German, or Spanish

Major Language 1, 2, 3, 4 (or equivalent)

French, German, or Spanish majors: FR 10, GER 10*, or SPAN 10, respectively.

+CSUF Notes: *GER 10 is not articulated at CSUF. Spanish majors at CSUF: ADD SPAN 6. Each course counted toward the major must be completed with a grade of "C" or higher.

++CSULB Notes: For the French major, CSULB has a second language requirement, which is two college years or equivalent of a second foreign language (not English). For the Spanish major, at least one year of a second foreign language at the college level is required for all options. Refer to the CSULB catalog for further details regarding program requirements.

Recommended Electives: FR 20, 21; GER 21; SPAN 20, 21; English literature courses; HIST 4, 5; other foreign language courses outside major language.

See CSU general education certification information in the introduction to this section of the catalog. For further information regarding these majors, refer to the CSUF or CSULB catalogs available for reference in the Career Center at Saddleback College.
UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Arts in French, German, or Spanish

Note: In fulfillment of the requirements below, a single course may be used only once.

Lower-division Requirements for the Major: Select one foreign language sequence from: FR 1-4; GER 1-4; SPAN 1-4 and 6*; (*SPAN 6 at Saddleback is equivalent to UC Irvine’s Spanish 10B only); AND

School Core Requirements:
Complete ENG 1A and 1B and HUM 10A and 10B; OR
Select at least one course from each of the following areas for a total of at least four semester courses:
Writing: ENG 1A, 1B.
History: HIST 4, 5.
Philosophy: PHIL 1.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org

Forestry
HUMBOLDT STATE UNIVERSITY
Bachelor of Science in Forestry

Options available in forest production management, forest resource conservation, or forest resources management.

Lower-division Preparation: BIO 1B; MATH 3A or 11.

General Education: Refer to general education certification information in the introduction to this section of the catalog.

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in Geography

Lower-division Preparation: GEOG 1, 2, and 3.

For students interested in the Single Subject Matter Preparation Program (Secondary Teaching) in Social Sciences, add the following: ECON 2, 4; HIST 4, 5, 16, 17, 32; PHIL 1 or 10; PS 1 and one additional CSU-transferable political science course; also select one behavioral science course from: ANTH 1, 2, 9 or PSYC 1 or SOC 1.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in Geography

Lower-division Preparation: GEOG 1, 2. GEOG 3 is recommended for elective credit.

SAN DIEGO STATE UNIVERSITY
Bachelor of Arts in Geography-General Geography (Liberal Arts & Sciences)

Lower-division Preparation: GEOG 1, 2.

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required, (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

In addition, a minor in another department approved by an SDSU advisor is required for this degree.

San Diego State University Catalog 2002/03
UNIVERSITY OF CALIFORNIA, RIVERSIDE
Bachelor of Arts and Bachelor of Science in Geology

General Geology Option or the Geobiology Option:

Lower-division Preparation: BIO 1C; CHEM 1A, 1B; GEOG 1 and 1L; GEOL 1, 2, 6; MATH 3A, 3B; PHYS 4A, 4B-4C sequence.

Biogeography Option:

Lower-division Preparation: BIO 1A, 1B, 1C; CHEM 1A, 1B; GEOG 1 and 1L; GEO 1 and 1L; MATH 3A, 3B; PHYS 3A and 3B or PHYS 4A-4B-4C (complete either physics sequence).

Note: Students selected for this major will need to present an overall GPA of at least 2.70 in all UC-transferable coursework. IGETC is not recommended by UCR. For further details regarding specific program and transfer requirements and information pertaining to minimum selection criteria for these programs, please refer to the UCR catalog, the Counseling Services office at Saddleback College, or the ASSIST website at: www.assist.org

Graphic Communications

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO
Bachelor of Science in Graphic Communication

Lower-division Major Courses: GC 101.

*Lower-division Support Courses: CHEM 1A; MATH 2 or 7 or 8.

Concentrations:

Design Reproduction Technology: ADD ART 40** and 42**.

Electronic Publishing and Imaging: (CS 1B recommended).

Printing and Imaging Management Concentration: ADD ACCT 1A; BUS 12 or 14, 120, 135.

**Credit subject to portfolio review by CSUP San Luis Obispo.

General Education and Breadth: See California State University general education certification or the Intersegmental General Education Transfer Curriculum (IGETC) sections in this catalog. Completion of general education requirements before transfer is strongly recommended.

Health Care Administration

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Science in Health Care Administration

Lower-division Prerequisites: ACCT 1A; BIO 20; ECON 4; MATH 11. Computer proficiency in word processing, spreadsheet, database, and presentation software is expected preparation for this major (CIM 1 is recommended).

An overall GPA of 2.0 or higher is required for entrance into the program. A minimum grade of "C" is required by CSULB for each prerequisite course listed above. Refer to the CSULB catalog for further information regarding program requirements.

Health Science

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Science in Health Science

Lower-division Requirements for the Major: BIO 113; HLTH 1

Prerequisite Courses Applicable to General Education Requirements: BIO 20; CHEM 3; PSYC 1; SP 1

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Science in Health Science

Lower-division Preparation for Options:

Pre-Radiation Therapy (Preprofessional) Option—Lower-division Prerequisites: BIO 11, 12, 20; ENG 1B; PHYS 2A and 2B or PHYS 3A and 3B; CIM 1 recommended. Note: This option is an impacted program. Refer to CSULB catalog for details regarding selection criteria.

Community Health Education Option—Lower-division Prerequisites: BIO 20, 113; CHEM 1A or 120; SPAN 1 or other language approved by a CSULB advisor.

School Health Education Option—Lower-division Prerequisites: BIO 20, 113; CHEM 1A or 120; PSYC 1; SPAN 1 or other language approved by a CSULB advisor. A teacher credential requires the completion of the option in CSULB’s School of Health Education and additional courses in the College of Education, Single-Subject Teacher Education program. Students are advised to contact CSULB for further information.

Health Care Option—Lower-division Prerequisites: Completion of general education requirements to include ENG 1A and one of the following courses from ANTH 2 or PSYC 1 or SOC 1; and a minimum of 12 units from BIO 20, 113; CHEM 1A or 120, or other natural sciences courses selected with CSULB advisor approval.

Additional lower-division courses are required after transfer to complete prerequisite requirements. Refer to the CSULB catalog for further information regarding program requirements. Also refer to the general education certification requirements listed in the introduction to this section of the Saddleback College catalog.

History

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in History

Introductory Survey Course Requirements (12 units):

U.S. History (six units): HIST (16 and 17) or (16 and 20 or SOC 20) or HIST (16 and 22).

World Civilization (six units): HIST 4 and 5.

Recommended Electives: Other social science courses including: additional history, geography, political science, psychology, sociology, and humanities, including art history, music history, and foreign languages.

Note: For students interested in the Single Subject Matter Preparation Program (Secondary Teaching) in Social Sciences, include the following: ECON 2, 4; GEOG 2 or 3; HIST 16, 17, 32; PS 1 and one additional CSU-transferable political science course; PHIL 1 or 10; also select one behavioral science course from: ANTH 1, 2, 9 or PSYC 1 or SOC 1.

Refer also to general education certification requirements listed in the introduction to this section of the catalog.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in History

Lower-division Preparation: In addition to HIST 16 and 17 to fulfill CSULB’s requirement in U.S. history, students can select an additional 12 units of lower-division history courses. Recommended courses include: HIST 4, 5, 19, 40, 41, or consult with a CSULB program advisor regarding course selection.

Per the CSULB catalog, History majors may not take courses which have overlapping content. In addition, CSULB recommends History majors to include the study of foreign language and literature in their programs. Refer to the CSULB catalog for further information regarding program requirements.

General Education: Refer to the CSU general education certification pattern in the introduction to this section of the catalog.
CALIFORNIA STATE UNIVERSITY, SAN MARCOS
Bachelor of Arts in History

Lower-division Preparation for the Major:
1. Twelve (12) units of History courses including two sequences in two different world areas from: HIST 4 and 5; HIST 7 and 8; HIST 16 and 17; HIST 27 and 28; HIST 40 and 41; or HIST 70 and 71.
2. Six units (two courses) selected in one field from the following: Anthropology, Literature, Political Science, Religion, Economics, Philosophy, Sociology, the Arts or a single interdisciplinary field.
3. Three units (one course) to be chosen from one of the above listed fields of study as a second and distinct field.
4. ENG 1A or 1B.

Single-Subject Preparation in Social Science—History Option:
Lower-division Preparation in History: HIST 4, 5, 16, 17 and PS 1; ECON 2 and 4; and select one CSU-transferable political science course; and complete ENG 1A or 1B.

Supporting Requirement: Six units of electives selected from CSU-transferable courses in Psychology and/or Sociology or complete at CSUSM after transfer.

Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The "language other than English" and "computer competency" requirements must be met with a grade of "C" or better. Refer to the CSUSM catalog for more information.

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Arts in History

Note: In fulfillment of the requirements below, a single course may be used only once.

Lower-division Requirements for the Major: HIST 4 and 5 or HIST 16 and 17 or HIST 27 and 28 or HIST 70 and 71, and up to three additional UC-transferable history courses; AND

Two years in a single language other than English at university level (or equivalent)* French, German, Italian, Japanese, or Spanish 3-4; AND

School Core Requirements:
Complete ENG 1A and 1B and HUM 10A and 10B; OR
Select at least one course from each of the following areas for a total of at least four semester courses:
Writing: ENG 1A, 1B
History: HIST 4, 5
Philosophy: PHIL 1

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback's Counseling Services Office or refer to the ASSIST website at: www.assist.org

UNIVERSITY OF CALIFORNIA, LOS ANGELES
Bachelor of Arts in History

Lower-division Preparation: Select one course from: HIST 4, 5; and select two courses from: *HIST 7, 8, 9, 10, 11, 15, 16, 17, 19, 20, 21, 22, 25, 30, 32, 40, 41, 60, 61, 70, 71, 72, 75, 80, 81 (*UC credit may be limited for courses with overlapping content. Students are advised to consult with a Saddleback College counselor regarding course selection).
CORE COURSES: HS 100, (110* and 150* combined), 120* (in lieu of CSUF’s PSYC 361 or CAS 312); MATH 10 (in lieu of CSUF’s PSYC 201).

*No upper-division credit granted by CSUF for HS 110, 120, 150.

Note: For transfer students who have completed an approved Alcohol and Drugs (CAADE-accredited program) or Eating Disorder Certificate Program at local community colleges, the CSUF Human Services program will accept up to eighteen (18) units of transfer credit for majors in the program. Students must show evidence of having completed the certificate program before transfer credit will be accepted. Students who have not completed the certificate program may apply a maximum of twelve (12) units of related coursework in human services or related fields toward the total of 54 units.

The 18 transfer units may include the transfer courses listed above under “Core Courses” and:

**Sample Alcohol and Drugs Certificate Courses:**
- HS 170 Alcohol and Drugs in Our Society
- HS 171 Alcoholism: Intervention Treatment & Recovery
- HS 172 Physiological Effects of Alcohol & Drugs
- HS 175 Substance Abuse Education, Prevention Intervention
- HS 182 Substance Abuse: Adolescent Treatment & Recovery

**Sample Eating Disorders Certificate Courses:**
- HS 181 Introduction to Eating Disorders
- HS 184 Medical Aspects of Eating Disorders
- HS 185 Background & Treatment of Eating Disorders

General education requirements may be completed following the certification requirements outlined in the introduction to this section of the catalog.

**ALSO SEE SOCIAL WORK**

**San José State University**

**Bachelor of Arts in Industrial Arts (Teacher Preparation Program)**

Students planning to apply to a single subject credential program to become a secondary-school teacher in industrial arts should consult with the SJSU major department advisor who specializes in teacher preparation. The program was designed to meet the California Commission on Teacher Credentialing (CTC) requirements for subject matter preparation in industrial arts and SJSU requirements for a B.A. in Industrial Arts. Students are advised to contact San José State University’s Division of Technology, College of Applied Sciences and Arts, for further information pertaining to program requirements and coursework.

General Education requirements: California State University general education requirements are listed in the introduction to this section of the catalog.

**California State University, Long Beach**

**Bachelor of Fine Arts in Art - Option in Interior Design**

The BFA in Interior Design is offered as preparation for the student who will eventually seek the Master’s degree or a position as a professional designer. The BFA program is a rigorous and competitive one. Portfolio review is required for admission to the professional BFA program. Students must achieve a “C” or better in each required design course to progress in the sequence of study. Refer to the CSULB catalog for further details regarding program requirements.

**Lower-division Preparation:** ART 25, 26, 41; ARCH 124A; ID 116, (120 or 121), (123 and 133), 127; MCT 115. Note: Students are advised to consult with a CSULB program advisor regarding selection of electives.

**San Diego State University**

**Bachelor of Arts in Arts - Emphasis in Interior Design**

**Lower-division Preparation:** ART 25, 26, 40, 41, 80, 81.

Recommended: ID 110, 112 and 121 are recommended-credit toward the major is subject to portfolio review. Additional lower-division preparation is required after transfer.

**Foreign Language Requirement:** Proficiency equivalent to a Foreign Language level 3 is required. Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College.

After transfer, a portfolio review is required to advance to upper-division interior design coursework. Students are advised to refer to the SDSU catalog and to contact SDSU’s School of Art, Design, and Art History for details pertaining to the nature and content of SDSU’s portfolio review. Students are also advised to contact the Counseling Services office at Saddleback College for further information regarding transfer requirements.

**General Education:** Refer to the general education certification requirements listed in the introduction to this section of the catalog.

**IMPORTANT:** Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

**Also See Communications**

**California State University, Fullerton**

**Bachelor of Science in Kinesiology**

Requirements for the Major: All foundation and core courses are upper-division with the exception of “Movement Anatomy”. BIO 11 or 113 should be taken at Saddleback College prior to transfer to meet the movement anatomy prerequisite.

Prerequisite Lower-division Performance Courses: A minimum of six courses. Intercollegiate sports courses may be applied in the appropriate areas. Students are required to complete at least one course in each of the following areas:
- Fitness: (PE 2, 4, 5 or 6).
- Aquatics: (PE 41, 42, 43; PPE 13 or 14).
- Combatives: (PE 93 or 94).
- Individual Sports: (PE 19, 20, 21, 23 or 29).
- Racquet Sports: (PE 11, 12 or 13; 14, 15, 16, 24, 25 or 26).
- Team Sports: (PE 70, 73, 74, 75, 76, 77, 78 or 79).

Athletic Training Program - Support Courses: BIO 11, 12; CHEM 108 or PHYS 10A; HLTH 1; PSYC 1.
Subject Matter Preparation Program (for obtaining single subject teaching credential in Physical Education): Refer to the requirements for the Kinesiology major listed above. Teacher Education students must take a minimum two courses in an "individual sports" area and add three units of dance (PE/TA 64 at Saddleback College) as well as a prevention and first aid course (HLTH 2 at Saddleback College).

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in Kinesiology - Option in Athletic Training
Lower-division Preparation: BIO 11A, 12A; CHEM 1A* and 1B*; MATH 10; PE 4 or 5; PHYS 20; PPE 3; PSYC 1; and eight physical activity units distributed over a minimum of four activity categories: PE 41, 42 will apply toward Aquatics category; and PE 14, 15 will apply toward Individual/Dual Sports category. Other categories include Combatives, Dance, Wilderness Studies, and Team Sports.

Bachelor of Science in Kinesiology - Option in Exercise Science
Lower-division Preparation: BIO 11A, 12A; CHEM 1A* and 1B*; MATH 10; HLTH 2A and 4A; MATH 8B; PHYS 2A* and 2B* or 3A* and 3B*; PSYC 1*; Electives: students select 18 units (minimum 6 units from KPE courses at CSULB after transfer) courses articulated at Saddleback College include: BIO 1A, 1B, 1C, 20; FN 50.

Bachelor of Science in Kinesiology - Option in Kinesthesiology
Lower-division Preparation: BIO 11A, 12A; CHEM 1A* and 1B*; MATH 10; HLTH 2A and 4A; MATH 8B; PHYS 2A* and 2B* or 3A* and 3B*; PSYC 1*; Electives: students select 18 units (minimum 6 units from KPE courses at CSULB after transfer) courses articulated at Saddleback College include: BIO 1A, 1B, 1C, 20; FN 50.

San Diego State University
Bachelor of Science in Kinesiology (Exercise and Nutritional Sciences) - Applied Arts and Sciences
Kinesiology is the study of the processes through which individuals obtain optimal health, physical skill, and fitness. The Kinesiology major includes specializations in Athletic Training, Fitness, Nutrition and Health, Physical Education, and Pre-physical Therapy.

Athletic Training Emphasis
Lower-division Preparation: BIO (1B and 1C), 11; CHEM 1A, 12A; MATH 10; PE 4 or 5; PHYS 20; PPE 3; PSYC 1.

Fitness, Nutrition & Health Education
Lower-division Preparation: BIO 11, 20; CHEM 108; MATH 10; PE 4 or 5; PPE 3; PSYC 1; and any two PE activity courses for a minimum of two units. Recommended: FN 50.

Physical Education Emphasis
This program is for students who wish to be candidates for a Single Subject Teaching Credential at SDSU. Completion of 12 units toward a minor or supplementary authorization is required. Students are advised to contact SDSU for further information regarding this program.

Lower-division Preparation: BIO 11; MATH 10; PPE 3; PSYC 1; SOC 1.

Pre-physical Therapy Emphasis
Lower-division Preparation: BIO 1B and 1C, 11; CHEM 1A; MATH 10; PE 4 or 5; PHYS 2A or 3A; PPE 3; PSYC 1, 3; SOC 1.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

Law (Pre-Law)
No specific college major is required for admission to a school of law. A typical requirement for admission to a school accredited by the American Bar Association is that a student must have been granted a bachelor’s degree from an accredited college or university. Some law schools, however, have alternate plans; therefore, students should consult the catalogs of the schools of law where they expect to apply for admission.

There is no definite pre-legal curriculum. The following recommendations are taken from guidelines supplied by the University of California Schools of Law at Berkeley, Davis, Los Angeles, and San Francisco. The student should obtain breadth in humanities, sciences, and liberal arts, such as anthropology, English, history, philosophy, mathematics and logic, sociology, economics, political science, and psychology. A general understanding of the business world is helpful, and strongly recommended is one year of accounting and the acquisition of computer skills. The student should develop writing competence and should take courses in which his or her work is edited vigorously.

San Diego State University
Bachelor of Arts in Liberal Studies
An upper-division core of 27 units is required. Students must also complete a 24-unit upper-division option in either the Thematic Plan or the Elementary Education Plan.

Thematic Plan:
This plan is designed for students who have broad interests that expand beyond the confines of a single department. Thematic Plan students may center their coursework on an academic interest, or they may select courses that prepare for later professional training or for specific careers. Such plans have included preparation for law school, advanced business degree programs, and preparation for careers in environmental science.

The American Humanities Certificate Nonprofit Agency track (51 units) is for students interested in careers serving in nonprofit agencies providing leadership, fund raising, marketing, and management services. This track focuses on nonprofit youth and human service management. Students completing the track receive an American Humanities Certificate, which helps in the search for a position in a nonprofit agency. To enter this track, students must:

- Have at least a 2.7 cumulative GPA;
- Complete an American Humanities Membership application;
- Complete an interview with the American Humanities Coordinator;
- Actively participate in the American Humanities Student Association (AHSA), and attend at least one retreat;
- Attend at least one American Humanities Management Institute (AHMI) conference.

Lower-division Preparation for the Thematic Plan: HST 4 or 5; ENG 21A or 21B; MUS 1 (MUS 1 is not required for students who have a knowledge of basic music theory). Students should also consult with a CSUF program advisor to develop their own 24-unit interdisciplinary program for the purpose of pursuing a problem, theme, or issue.

Elementary Education Plan:
The Elementary Education Plan is for students seeking a Multiple-Subjects Teaching Credential. Students will be required to take the state-approved MSAT exam (Multiple Subjects Assessment Test) unless they complete the approved Multiple-Subject Matter Preparation Program (MSMPP) which waives the MSAT. While Liberal Studies is a recommended major for students interested in obtaining a Multiple-Subjects Teaching Credential, students have
the option of completing any academic major at CSU Fullerton and then either passing the MSAT exam or completing the MSMPP.

Lower-division Preparation for either the MSMPP or MSAT: Completion of the CSU General Education certification pattern, or the IG-ETC for CSU certification pattern; ENG 21B, 142; FA 27; GEOG 3; HIST 4, 16 or 22, and 32; PSYC 1, 7; SP 1; an introduction to chemistry or physics course (e.g., select one from: CHEM 3, 108, 120 or PHYS 2A or 20); an earth science or astronomy course (e.g., select one from: ASTRO 20, GEOG 1, GEOL 1 or 20); BIO 20 and MATH 7 are recommended courses for General Education.

Note: Students who have not completed a minimum of three years of high school foreign language with a "B" average or better, or evidence of language competency, will be required to complete a minimum of six semester units in college with a "C" or better as prerequisite for admission to the credential program. Students are strongly encouraged to see a Saddleback College counselor for additional information regarding elementary education program requirements.

Additional information is also available on CSUF's Center for Careers in Teaching (CCT) website: www.fullerton.edu/cct.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in Liberal Studies

The program of study for the Liberal Studies major is composed of two parts: a Core and a Concentration. There are two program tracks in the Liberal Studies major, each with its own Core and related Concentrations.

Track I of the Liberal Studies Program is designed for those individuals who seek the preprofessional subject matter preparation for elementary school teaching. Students who complete Track I do not have to take the Multiple Assessment for Teachers examination.

Track I:
Area I: Language Studies (minimum 22 units)
Group 1: ENG 1A
Group 2: SP 1
Group 3: ENG 21B
Group 4: An upper-division course after transfer or one course from: FR 3, 4; GER 3, 4; JA 3, 4; SPAN 3, 4.
Group 5: An upper-division language acquisition course to be taken after transfer.

Area II: Mathematics (minimum 9 units)
Group 1: CSULB requires a mathematics sequence for elementary teachers. (A general education mathematics course must be completed prior to transfer. MATH 7 is recommended.)
Group 2: A mathematics course to be taken after transfer.
Group 3: An integration and assessment course to be taken after transfer.

Area III: Natural Sciences (minimum 14 units)
Group 1: BIO 20
Group 2: A physical science course to be taken after transfer.
Group 3: GEOG 1
Group 4: A natural science course to be taken after transfer.

Area IV: History and Social Sciences (minimum 24 units)
A): American History, Culture, Society
Group 1: HIST 16
Group 2: PS 1
Group 3: A multicultural course to be taken after transfer.
B): World History, Culture, Society
Group 1: GEOG 3
Group 2: A world history course to be taken after transfer.
Group 3: ANTH 2
Group 4: A civic issues course to be taken after transfer.

Area V: Arts and Humanities (minimum 15 units)
A): Visual and Performing Arts
Group 1: A visual art and music course to be taken after transfer.
Group 2: TA 20 or 25

B): Humanities
Group 1: Choose one course from: PHIL 1, 10, or 15
Group 2: An integration and assessment course to be taken after transfer.

Area VI: Learning and Well-Being (minimum 18 units)
Group 1: PSYC 1
One additional psychology course to be taken after transfer.
Group 2: A health science and one physical education course to be taken after transfer.
Group 3: One course from: PHYS 1B, PHIL 12, SP 3, or any course approved for category A3 of the General Education Program
b) A computer applications course to be taken after transfer.

The Track II Liberal Studies Program at CSU Long Beach is designed for those individuals who seek a rich, nonspecialized, multidisciplinary, and cross-disciplinary course of study as a foundation for lifelong world citizenship and a wide range of academic and career opportunities.

Students are advised to refer to the CSU Long Beach catalog, and consult a Saddleback College counselor for more information.

CALIFORNIA STATE UNIVERSITY, SAN MARCOS
Bachelor of Arts in Liberal Studies

Preparation for the Major includes the following:

A. Basic Skills (9 units from):
2. Written Communication: ENG 1A.
3. Critical Reasoning: ENG 1B+; PHIL 12; SP 2, 3 (+ENG 1B may satisfy either Critical Reasoning or the Advanced Writing requirements but not both).

B. *Science and Mathematics* (15-18 units from):
1. Physical Science (3 units): CHEM 1A, 1B; MS/PHYS 2A, 4A, 20.
2. Earth Science (3 units): ASTR 20, 21, 45; ENV 23, 120; GEOG 1; GEOL 1, 2, 3, 5, 20, 23; MS 20.
3. Biology (3 units): BIO 1A, 1B, 11, 12, 18, 20, 41.
4. Mathematics (two courses): A sequence of MATH for Elementary Teachers to be taken at CSU San Marcos. No equivalent for this requirement at Saddleback College. MATH 7 is recommended.

*One of the science courses above must have a 1-unit laboratory in association with or included in the selected science course.

C. *Humanities* (18-21 units from):
2. Studio Art (3 units): ART 10, 40, 41, 50, 57, 70, 80; MUS 1, 10, 15, PHOT 50; TA 1, 10.
3. World Civilization (6 units): HIST 4 and 5.
5. Intermediate Foreign Language (one from): FR 3; GER 3; ITA 3; JA 3; SL (1, 2, and 3); SPAN 3.

D. *Social Sciences and American Institutions* (12 units from):
1. Social Science (two courses from two different disciplines): ANTH 2; ECON 2, 4, 6, 20; GEOG 2; PS 11, 12, 14; PSYC 1, 7, 30, 33; SOC 1, 2, 10, 15, 21.

E. Physical Health (4 units):
2. Physical Activity (1 unit): Any PE activity course (at least 1 unit).
Completion of a minimum of 60 units including all General Education and Liberal Studies courses and maintaining a minimum GPA of 2.75 may qualify students for the Integrated Curriculum option allowing completion of all major and credential requirements in six additional semesters. For more information, contact CSU San Marcos’ Coordinator-Integrated Curriculum Option, at (760) 750-8636.

Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of “C” or better. Refer to the CSUSM catalog for more information.

SAN DIEGO STATE UNIVERSITY

Bachelor of Arts Degree in Liberal Arts and Sciences - Liberal Studies Major


*Spanish is strongly recommended. (Also refer to section of SDSU catalog on “Graduation Requirements.”)

Preparation for the Major:

1. Composition 3 units ENG 1A
2. Composition 3 units ENG 1B
3. Speech 3 units SP 1
4. Literature 3 units ENG 21B
5. Mathematics 3 units MATH 7 recommended
6. Mathematics 3 units MATH sequence must be completed after transfer.

Life Sciences 4 units
8. Physical/Earth Science 3-4 units ASTR 20, 25; CHEM 3; GEOG 1; GEOL 1; PHYS 20
9. Laboratory 3 units From category 7 or 8
10. Social/Global Perspective 3 units ANTH 1, 2, 3, 9 or ECON 2, 4 or GEOG 1, 2, 3 or PS 4 or PSYC 1 or SOC 1; AND Select one year of a language other than English (in addition to Category VI of the UCI Breadth Requirement) OR complete the following: CS 1C and CS 1A and CS 2B and CIM 7A*; also required: MATH 3A and 3B or complete a one-year statistics sequence at UCI after transfer; also complete CIM 10 or (CIM 2A and 10) or CS 1C.

*CIM 7A (Business Programming: JAVA Beginning) is currently approved as an equivalency for this major. CS 4A (Introduction to JAVA for Computer Science) is pending UCI approval at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

G.E. Breadth requirements Information regarding UCI G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org

Marine Biology

Several four-year colleges offer a major in marine biology. The preparation for the major is generally the same as that for any other biological sciences major, including a year of physics, two years of chemistry, one to two years of biology, and mathematics through calculus. (Also see “Biological Sciences.”)

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Arts in Linguistics

Lower-division Preparation: Two progressive semesters of any two languages or four progressive semesters of one language are required.

General education requirements may be met by completion of the CSU G.E. certification pattern.

UNIVERSITY OF CALIFORNIA, IRVINE

Bachelor of Arts in Linguistics

(Note: In fulfillment of the requirements below, a single course may be used only once.)

Lower-division Preparation: Select one course from the following: ANTH 1, 2, 3, 9 or ECON 2, 4 or GEOG 1, 2, 3 or PS 4 or PSYC 1 or SOC 1; AND Select one year of a language other than English (in addition to Category VI of the UCI Breadth Requirement) OR complete the following: CS 1C and CS 1A and CS 2B and CIM 7A*; also required: MATH 3A and 3B or complete a one-year statistics sequence at UCI after transfer; also complete CIM 10 or (CIM 2A and 10) or CS 1C.

*CIM 7A (Business Programming: JAVA Beginning) is currently approved as an equivalency for this major. CS 4A (Introduction to JAVA for Computer Science) is pending UCI approval at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

G.E. Breadth requirements Information regarding UCI G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org

MARINE BIOLOGY

A Bachelor of Science degree in marine biology is offered at Humboldt State University. See Oceanography for specific courses required as preparation for the major.

San Diego State University offers a minor in oceanography intended for students with extensive background in the sciences, as well as a major in geology with a marine geology option. Refer to the SDSU catalog and to sections of this catalog outlining engineering and natural science majors.

Note: Students who are interested in a transfer major in the marine sciences should refer to the programs outlined in the occupational vocational section of this catalog. Indications are that while advanced degrees are necessary for entering careers in marine sciences, employment possibilities are increased for those with the kinds of skills learned in the marine sciences technology courses. With proper planning, a three-year program can be completed which allows students to complete both vocational and transfer objectives. Because a high level of skill proficiency is required in today’s job market, students are advised to complete vocational courses even if units in excess of the maximum allowed are accumulated.
Mathematics

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in Mathematics

Each course required for the major must be completed with a grade of "C" or better. Courses required for the major may not be taken on a credit/no credit basis and are not subject to challenge examinations. CSUF recommends that students complete all lower-division mathematics courses prior to transfer.

Lower-division Core Requirements: CS 1B or 12; MATH 3A, 3B, 3C, 24, 26.

In addition to the above requirements, each student is required to complete 9-12 units in one of the following cognates or after transfer: Chemistry, Civil Engineering, Computer Science, Economics, Management Science, Mathematics, Physics. Applicable lower-division preparation can be completed at Saddleback College for the following cognates:

Chemistry Cognate: CHEM 1A and 1B.
Civil Engineering Cognate: ENGR 31.
Computer Science Cognate: CIM 172A and CS 2B.
Economics Cognate: ECON 2 and 4.
Management Science Cognate: (no lower-division courses)
Mathematics Cognate: (no lower-division courses)
Physics Cognate: PHYS 4A, 4B and 4C.

General Education: Refer to CSU general education certification section of this catalog.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Science in Mathematics

Lower-division Requirements: CS 1B*; ENG 1B; MATH 3A, 3B, 3C, 26; PHYS 4A.

Option in Mathematics Education:
Lower-division requirements: CS 1B*; ENG 1B; MATH 3A, 3B, 3C, 26; and one of the following sequences: PHIL 12 and CSULB’s PHIL 270 after transfer, or PHYS 4A and 4B, or two semesters (at least eight units) of a foreign language.

*Equivalency for CS 1B is pending CSULB approval at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

General Education: Refer to CSU general education certification section of this catalog.

CALIFORNIA STATE UNIVERSITY, SAN MARCOS
Bachelor of Science in Mathematical Sciences

Lower-division Requirements: CS 1B (and CS 112 taken at CSUSM); MATH 3A, 3B, 3C; PHYS 4A; and choose two from the following: BIO 1A-1B; CHEM 1A; CS 1C and 2B (with CS 212 taken at CSUSM); or PHYS 4B.

General Education: Refer to CSU general education certification section of this catalog.

Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The "language other than English" and "computer competency" requirements must be met with a grade of "C" or better. Refer to the CSUSM catalog for more information.

SAN DIEGO STATE UNIVERSITY
Bachelor of Arts in Mathematics

Lower-division Preparation: MATH 3A, 3B, 3C, 26; SDSU also recommends completion of PHYS 4A, 4B and 4C.

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Science in Mathematics

Lower-division Preparation: MATH 3A, 3B, 3C, 24, 26; and select CHEM 1A and 1B or PHYS 4A and 4B or PHYS 4A and 4C or PHYS 4A-4B-4C sequence; and choose one course equivalency from: CS 1B, 12 or (CS 1A and 2B and CIM 7A* and CS 1C-12; this combination equals UCI’s ICS 21).

*CIM 7A (Business Programming: JAVA Beginning) is currently approved as an equivalency for this major. CS 4A (Introduction to JAVA for Computer Science) is pending UCI approval at the time of catalog publication. Contact the Articulation Office at Saddleback College regarding status (949) 582-4435.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org

Medical Technology

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS
Bachelor of Science in Clinical Science - Medical Technology

Lower-division Core Requirements for all Clinical Science Majors include: BIO 113; CHEM 1A, 1B; MATH 10; and additional lower-division coursework after transfer.

In addition to Medical Technology, other available options for the B.S. in Clinical Science include Clinical Genetics, Cytotechnology, General Clinical Sciences, and the Nuclear Medicine Technology Option. Refer to the CSU Dominguez Hills catalog for details regarding screening criteria and additional program requirements.

SAN DIEGO STATE UNIVERSITY
Bachelor of Science in Microbiology - Emphasis in Medical Technology and Public Health Microbiology

The emphasis in medical technology and public health is a program of required and elective courses which prepares students for the Public Health Microbiologist and Clinical Laboratory Technologist academic certification and licensing examinations.

Lower-division Preparation: BIO 1A, 1B, 1C; CHEM 1A, 1B, 12A; MATH 3A; PHYS 2A and 2B or 3A and 3B.

Refer also to the CSU general education certification requirements in the introduction to this section of the catalog.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.
Medicine (Pre-Medicine)

There are eight medical schools in California. Five of these are operated by the University of California (Davis, Irvine, Los Angeles, San Diego, and San Francisco). The three private schools are University of Southern California, Stanford University, and Loma Linda University. Preparation for admission requires high scholarship in three or usually four years of premedical study. Students are advised to make normal progress toward a baccalaureate degree in some major of their choice. Admission requirements may vary from one school to another, and the following courses are a composite of minimum admission requirements to medical schools in general:

Lower-division Preparation: BIO 1A, 1B; CHEM 1A, 1B, 12A, 12B; PHYS 2A and 2B or 3A and 3B or 4A and 4B; MATH 3A, 3B; ENG 1A, 1B and an additional English course.

Detailed information about the offerings, requirements, and selection process should be obtained from the announcement or bulletin of the medical school in which the student is interested.

Military Science

The Saddleback College Career Center maintains current information regarding military science programs leading to a commission and to military service career opportunities.

Music

The following curriculum is designed to meet the needs of the transfer student in music. Although great care has been taken to provide the student with the required courses necessary for acceptance as a junior at any California State University, it is advisable to check the specific catalog of the school to which you are transferring in order to determine that specific areas have been covered. It should be noted that most colleges and universities require applied music and performance as a major’s requirement each term.

CALIFORNIA STATE UNIVERSITY SYSTEM—INDEPENDENT COLLEGES AND UNIVERSITIES

Transfer Core:

Music Theory — MUS 1 (or proficiency exam) is a prerequisite to the theory sequence and should be taken, if needed, during the summer session.
- F-1 MUS 10—Harmony I
- S-1 MUS 11—Harmony II
- F-2 MUS 12—Harmony III
- S-2 MUS 13—Harmony IV

Music History:
- MUS 25—Music History: to Mozart or MUS 26—Music History: since Mozart or both, depending on transfer institution requirements.

Keyboard:
- MUS 54—Beginning Piano
- MUS 55—Intermediate Piano; or MUS 56—Advanced Piano.
- May pass proficiency exam.

Performance (each semester enrolled):
- MUS 30’s or 40’s series or MUS 64 (Performance Group)

Applied Music (each semester enrolled):
- MUS 50, 51, or 52 (Applied Music)

Jury/Recital (each semester enrolled):
- MUS 59 (Jury/Recital)

Taking Foreign Languages:
- May pass proficiency exam.

General Education:
- General education requirements for the California State University system may be certified according to the pattern outlined in the introduction to this section of the catalog. (See the music department staff for suggested electives in specific areas of emphasis.)

A maximum of 70 units is transferable, although subject matter credit is given where needed to meet specific course requirements. Proficiency examinations are generally required to determine placement in upper-division courses and/or to determine course waivers for upper-division courses which are parallel in lower-division.

UNIVERSITY OF CALIFORNIA

The requirements for music theory, music history, enrollment in performance courses, and keyboard proficiency are generally uniform throughout the system. Therefore, the program listed above should be followed.

General education or breadth requirements vary from campus to campus; therefore, it is recommended that students follow the Intersegmental General Education Transfer Core Curriculum (IGETC). UC Irvine breadth requirements are listed in the introduction to this section. A reading proficiency in a foreign language, usually French or German, is generally required.

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Arts in Music

Liberal Arts Concentration, *Music History & Theory Concentration, Music Education Concentration

Lower-division Preparation - Core Requirements: MUS 10, 11, 12.

- Allied Requirement for Music History & Theory Concentration: Proficiency in one foreign language (French, German, or Italian, preferably German, to be satisfied by one of the following):
  a) 4 years study of foreign language at the secondary school level.
  b) Passing an exam given by CSUF’s Department of Foreign Languages & Literature.
  c) Completing the second semester of the beginning university sequence of a foreign language (at Saddleback College: FR 2 or GER 2) or Italian 2nd semester.

Music Theory Classes: Transfer students are placed in required music theory classes based on their competence at entrance. Transfer credit will be given by CSU Fullerton only for those classes up to and including the student’s demonstrated level of competence, regardless of how many courses or units have been taken.

Music-Major Piano Classes: All music majors at CSU Fullerton must reach a certain competency in piano. This may be achieved independently or through class-piano study. The CSU Fullerton Music Department does not require class piano in any degree program and thus does not grant transfer credit for piano classes, except as music electives.

Bachelor of Music

*Composition Concentration, Instrumental Concentration, Keyboard Concentration, **Voice Concentration, Accompanying Concentration, Commercial Music Concentration

Lower-division Preparation - Core Requirements: MUS 10, 11, 12.

- Allied Requirement for Composition Concentration: Proficiency in one foreign language (French, German, or Italian, preferably German, to be satisfied by one of the following):
  a) 4 years study of foreign language at the secondary school level.
  b) Passing an exam given by CSUF’s Department of Foreign Languages & Literature.
  c) Completing the second semester of the beginning university sequence of a foreign language (at Saddleback College: FR 2 or GER 2) or Italian 2nd semester.

**Allied Requirement for Voice Concentration: Same as Composition Concentration above, but two foreign languages must be satisfied.
Music Theory Classes: Transfer students are placed in required music theory classes based on their competence at entrance. Transfer credit will be given by CSU Fullerton only for those classes up to and including the student’s demonstrated level of competence, regardless of how many courses or units have been taken.

Music-Major Piano Classes: All music majors at CSU Fullerton must reach a certain competency in piano. This may be achieved independently or through class-piano study. The CSU Fullerton Music Department does not require class piano in any degree program and thus does not grant transfer credit for piano classes, except as music electives.

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Arts in Music and the Bachelor of Music

The Department of Music at UCI offers two degrees: the Bachelor of Arts in Music with emphases in Analysis, History, Jazz, and Performance; and the Bachelor of Music with specializations in composition, bassoon, clarinet, contrabass, flute, french horn, harp, jazz instrumental, lute and guitar, oboe, percussion, piano, saxophone, trembone, trumpet, tuba, viola, violin, violincello, and voice.

It is recommended that transfer students enter the major with college-level private instrumental or voice instruction two years of music theory, the history of Western music, ear-training, sight-singing, sight-reading, and piano.

All transfer students must pass a performance audition in order to declare a major in either degree program. Transfer students must also take the placement tests in musicianship, theory, and history in order to receive credit toward fulfilling degree requirements. All transfer students should pass the required piano (sight-reading) examination no later than their second quarter of upper-division standing. A complete list of recommended proficiency levels can be found in the UCI catalog.

Lower-division Core Requirements for both degree programs: MUS 10, 11, 12, 13, 25, 26.

*Two years of individual vocal or instrumental instruction from: MUS 50, 51, 52, and *two years of ensemble or repertory from: MUS 30, 31, 32, 33, 34, 35, 37, 40, 41, 42, 43, 47, 49, 67, 68, 69.

*At least one year for each category must be taken in residence at UCI.

Refer to the UCI catalog for additional information regarding other program requirements.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org

Natural Resources

Refer also to specific majors such as environmental studies, fisheries, forestry, oceanography, range management, or wildlife management.

HUMBOLDT STATE UNIVERSITY
Bachelor of Science in Natural Resource Planning and Interpretation

Lower-division Preparation (core—all options): BIO 1B, 1C; CHEM 1A; ENV 106 or BIO 106. Recommended: CIM 1.

Planning Option - ADD: GEOG 1; MATH 10.

Interpretation Option - ADD: ANTH 2 or GEOG 2; BIO 1A; GEOL 1; HIST 16 or 17; MATH 10; SP 30. MS 20 can also be taken prior to transfer for the Marine/Aquatic area of this option.

Recreation Option - ADD: BUS 14; MATH 10.

Geographic Information Systems (GIS) & Remote Sensing Option - ADD: CIM 2A; MATH 3A or 11.

Refer to the HSU catalog for further information regarding program requirements.

General Education: Refer to the CSU general education certification section of this catalog.

Natural Resources Management

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO
Bachelor of Science in Forestry and Natural Resources

The programs prepare students for entry into the profession of forestry and natural resources. Concentrations offered are Environmental Management, Forest Resources Management, Natural Resources Recreation, Urban Forestry, Wildland Fire and Fuels Management, Watershed Hydrology.

Lower-division Preparation: Support Courses (required for all concentrations): BIO 1B*; CHEM 1A*; MATH (2* and 124*), 11*; PHYS 2A or complete after transfer.

ADD: for the Watershed Hydrology Concentration: GEOL 1; PHYS 2B.

*Course equivalents listed above also apply toward SLO’s general education and breadth requirements.

Nursing

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Science in Nursing

The CSU Fullerton program is an upper-division program designed for registered nurses seeking a Bachelor of Science degree in nursing. Among the admission requirements are the following: 1) Meet requirements for admission to the university as a transfer student; 2) Completion of an associate degree in nursing or its equivalent; 3) Current licensure as a registered nurse in California; 4) Completion of one year of satisfactory work experience as a registered nurse is recommended; 5) Completion of the following (with a minimum grade of “C” in each course):

   BIO 11, 12, 15
   CHEM 1A or 3 or 108 or 12A
   PSYC 1
   SOC 1 or ANTH 2

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Science in Nursing - Basic Nursing Program

To advance from the pre-Nursing major to the Nursing program, students must: Earn a “C” or better and a GPA of at least 2.5 in all prerequisite courses; complete a test at CSULB that assesses their ability for critical thinking and problem-solving abilities; successfully complete the CSULB Writing Proficiency Examination (WPE); complete all lower-division general education requirements; and it is also recommended that prospective students schedule a personal interview with a nursing faculty member at CSULB prior to transfer.

Because the program is impacted, students should apply during the initial filing period.

Lower-division Preparation: BIO 11*, 12*, 15*; CHEM 108*; PSYC 1*, SOC 1*; N 160 (required support course).

*CSULB screening criteria equivalencies for this impacted major. Please refer to the CSULB catalog for further details regarding program requirements.

Registered Nursing Program (CSULB)

Lower-division Preparation: Earned Associate Degree in Nursing including certification of general education requirements. The general education program should include the same courses listed above for the Basic Nursing Program. Students should contact the Nursing Department at CSU Long Beach for further information regarding this program.
SAN DIEGO STATE UNIVERSITY
Bachelor of Science in Nursing (Applied Arts & Sciences)

Lower-division Prerequisites: BIO 11, 12, 15, 20; MATH 10; PSYC 1, 7; SOC 1. (Note: Chemistry coursework required after transfer.)

The Nursing major at SDSU is designated as an impacted program, and specific GPA requirements and regulations related to admissions are imposed. Please refer to the SDSU catalog for more details. It is also recommended that students contact the Nursing Department at SDSU for further information regarding this program.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

OTHER CSU NURSING PROGRAMS: Other CSUs offering either basic nursing, registered nursing programs, or both, are: Bakersfield, Chico, Dominguez Hills, Fresno, Hayward, Humboldt, Los Angeles, Northridge, Sacramento, San Bernardino, San Francisco, San Jose, Sonoma, and Stanislaus.

MOUNT ST. MARY’S COLLEGE
Nursing Program - Baccalaureate Degree

Lower-division Preparation: BIO 11, 12, 15; PHYS 2A; ENG 1A, 1B; FN 50 or 161; PHIL 15; PSYC 1, 37; SOC 1; SP 1, 4; and choose one of the following courses: PHIL 10 or 14 or ENG 40 or 41.

For more information regarding program requirements, contact the Counseling Services office at Saddleback College or Mount St. Mary’s College.

UNIVERSITY OF SOUTHERN CALIFORNIA
Nursing Program

Students are advised to complete USC’s general education courses, writing requirement, and nursing program prerequisites. Transfer students should have a cumulative GPA of 3.0 or higher to be competitive.

Lower-division Prerequisites: BIO 11, 12, 15; CHEM 1A; PSYC 1; and one semester of a foreign language; and USC’s Nursing 202, 308, and additional lower-division coursework after transfer. Students are advised to call the USC School of Nursing at (323) 442-2001 for more information.

In addition, refer to the “Transferring to USC” booklet available at USC or in the Counseling Services office at Saddleback College.

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS
Bachelor of Science Degree in Occupational Therapy

The Occupational Therapy program at CSU Dominguez Hills includes curriculum and fieldwork that leads to the Bachelor of Science in Occupational Therapy and, for its graduates, eligibility to sit for the national certification examination. Refer to the CSUDH catalog for details regarding admissions and program requirements.

Lower-division Preparation: BIO 113; MATH 10; a level one foreign language (e.g., SPAN 1). Recommended: BIO 20.

LOMA LINDA UNIVERSITY
Bachelor of Science Degree in Occupational Therapy

The occupational therapist works with individuals who need help in learning to cope with psychological or physiological dysfunction to improve their ability in self-care or to gain living ability. The therapist has a choice of working with varied disability groups or persons of any age in facilities such as general hospitals, geriatric homes, rehabilitation centers, pediatric or psychiatric hospitals, and home care programs.

Lower-division Requirements:

Domain 1: Spiritual and Cultural Heritage (Total of 14 semester units minimum in Domain 1)

Religion (3-6 units): Any religion or humanities courses.

Cultural Heritage (8 semester units minimum): Select courses in two areas from: ART 20; ENG 15A, 15B, 17A, 17B, 21A, 21B; any foreign language; HIST 4, 5, 16, 17, 19; MUS 20 (Applied Art/Music one semester hour maximum); PHIL 1, 12, 15.

Domain 2: Scientific Inquiry and Analysis:

Natural Sciences: BIO 11 and 12 (complete sequence); CHEM 108; MATH 253* (*MATH 253 required but no college credit is given); PHYS 2A.

Social Sciences: ANTH 2 or CCS 1 or 2 (required); PSYC 1, 7; SOC 1; and select one additional course from anthropology, or psychology, or sociology.

Domain 3: Communication: CIM 112; ENG 1A and 1B; SP 5.

Domain 4: Health and Wellness: FN 50; and select two units of PE (activity).

SAN JOSE STATE UNIVERSITY
Bachelor of Science in Occupational Therapy

Recommended Lower-division Preparation (Prerequisites): BIO 11, 12; MATH 10; PHYS 20; PSYC 1, 37; SOC 2; and select one studio arts or skills course from: ART 10, 11, 60, 65, 70, 133; or FASH 110, 124; or MCT 110, 115.

Refer to the SJSU catalog for further information regarding this program. CSU general education certification information is listed in this section of the catalog.

UNIVERSITY OF SOUTHERN CALIFORNIA
Bachelor of Science in Occupational Therapy

Recommended Lower-division Preparation: BIO 11, 12; MATH 10; PHYS 20; PSYC 1, 37; SOC 1 or ANTH 2.

Note: Please refer to the "Transferring to USC" booklet for general education requirements and other admissions information which is available in Saddleback’s Counseling Services office or the Career Center.

HUMBOLDT STATE UNIVERSITY
Bachelor of Science in Oceanography

Recommended Lower-division Preparation: BIO 1C; CHEM 1A, 1B; GEOL 1; MS 20; MATH 3A, 3B, 3C, 10; PHYS 4A.

General Education: Refer to the CSU general education certification section of the catalog for specific requirements.

Optometry

The requirements for admission to the schools and colleges of optometry vary. However, all optometric schools and colleges require at least two years of pre-optometric study, which should include general biology or zoology (BIO 1A); general chemistry (CHEM 1A, 1B); general physics (PHYS 2A-2B or 3A-3B); college mathematics (MATH 124, 2 or 3A, 3B); and English composition (ENG 1A, 1B). Brief survey courses will not prepare a student for the schools and colleges of optometry.

All of the schools and colleges require additional courses for admission, but each school has its own set of requirements. For example:
UNIVERSITY OF CALIFORNIA, BERKELEY

Optometry, Pre-professional Preparation Requirements:

Optometry at UC Berkeley is a four-year professional degree that students enter after receiving a bachelor’s degree. New students are accepted in the fall semester only, following completion of pre-requisite courses listed below.

Additionally, the Optometry Admission Test (OAT) is mandatory for all applicants. Students desiring to enter the School of Optometry should arrange to take the OAT no later than October before entrance. Refer to the UCB catalog, or ASSIST at www.assist.org for further information regarding this program.

Lower-division Prerequisites: BIO 1A, 1B, 1C, 11, 12, 16; CHEM 1A, 1B (prerequisite for 12A), 12A, 12B; ENG 1A, 1B, 25; MATH 3A, 3B, 10; PHYS 2A and 2B or 4A and 4B; PSYC 1.

UNIVERSITY OF CALIFORNIA, SAN DIEGO

Bachelor of Science in Chemistry/Biochemistry: Pharmacological Chemistry

The Pharmacological Chemistry major provides a strong background in chemistry and includes most courses required by California pharmacy schools. The major is intended primarily as preparation for pharmacy schools, but students fulfilling their elective requirements with appropriate courses would be prepared for graduate school to obtain a Ph.D. in pharmacology or other areas of science. Degree recipients would also be prepared for most jobs in the biotechnology and chemical industries.

Recommended Lower-division Preparation: BIO 1A, 1B, 1C; CHEM 1A, 1B, 12A, 12B; ECON 2 or 4; MATH 3A, 3B, 3C, 24; PHYS 4A, 4B, 4C.

Students are advised to contact UC San Diego for further information regarding this program.

SOUTHERN CALIFORNIA COLLEGE OF OPTOMETRY

All applicants are required to complete a minimum of 90 semester units or 135 quarter units prior to matriculation. No more than 70 semester or 105 quarter units earned at a two-year college may apply to the minimum credit hour requirement. It is strongly recommended that applicants be pursuing a baccalaureate degree if they do not already have one.

Recommended Lower-division Preparation: BIO 1A, 1B, 15; CHEM 1A, 1B, 12A; ENG 1A, 1B; MATH 3A, 10; PHYS 2A, 2B; PSYC 1 and one other transferable psychology course. Each course must be completed with a grade of “C” or better.

Ornamental Horticulture

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO

Bachelor of Science in Environmental Horticulture Science

The major offers the student a comprehensive preparation for positions in the nursery, greenhouse, landscape, and floriculture industries.

Major Course Requirements: HORT 10, 11, 112.

Support Courses: ACCT 1A; BIO 1B*; BUS 12 or 14; CHEM 1A*; CIM 1; ECON 20; MATH 7* or 8*; MATH 10 and SPAN 1 are recommended.

*Course equivalents listed above also apply toward SLO’s general education and breadth requirements.

Refer to the CSU general education certification pattern, which is listed in this section of the catalog.

Pharmacy

The requirements for admission to schools and colleges of pharmacy vary. Students are advised to contact the institution of choice for details regarding special program and admission requirements. Normally a minimum of two years’ pre-pharmacy undergraduate preparation is required. Because of limited space and other factors, admission has become increasingly competitive. An increasing number of students are entering the school after completion of the bachelor’s degree.

UNIVERSITY OF THE PACIFIC

Pre-Pharmacy Requirements (Doctor of Pharmacy Program)

Lower-division Preparation: BIO 1A, 1B, 15; CHEM 1A, 1B, 12A, 12B; ECON 2; ENG 1A, 1B; MATH 3A or 11; PSYC 1; PHYS 2A or 3A or 4A; SP 1.

Transfer students may enroll at the University of the Pacific (UOP) at any point in their education. UOP will accept general education courses completed at most accredited colleges and universities, including the CSU G.E. Certification pattern and the IGETC (CSU or UC patterns). Interested students are advised to contact the UOP’s Pharmacy Evaluations at (800) 969-2867 as well as refer to the UOP catalog for further details regarding program requirements.

UNIVERSITY OF SOUTHERN CALIFORNIA

Pre-Pharmacy Requirements (Effective Fall 2003)

Lower-division Preparation: BIO 1A, 1C, 12, 15; CHEM 1A, 1B, 12A, 12B; ECON 2 or 4; ENG 1A and 1B; MATH 3A, 10; PHYS 2A and 2B or PHYS 4A and 4B; PSYC 1 or SOC 1; SP 5*; and

#Humanities Requirement: Select 6 transferable semester units of general courses in classics, ethics, fine arts (except performance courses), foreign language, history, literature, or philosophy; and

#Social & Behavioral Sciences: Select 12 transferable semester units of general courses in anthropology, economics, geography, international relations, political science, psychology, or sociology.

*SP 1 will be accepted if completed prior to Fall 2002.
CSU Fresno, CSU Long Beach, CSU Northridge, CSU Sacramento, and San Francisco State University have Masters in Physical Therapy (MPT) programs. Interested students are advised to contact the campus of choice for further information and details regarding admissions and program requirements.

*General Requirements for CSU pre-Physical Therapy Programs:

The pre-physical therapy education requirements are similar to pre-medical and other pre-health professional programs. Students must follow a prescribed program leading to a bachelor’s degree including coursework in appropriate physical, biological, and behavioral sciences. The physical therapy program at some campuses may be impacted; that is, the number of applicants exceeds the number that can be accepted; therefore, physical therapy applicants are subject to supplemental criteria in addition to those required for admission to a university. Students are advised to consult the catalog or graduate bulletin for specific information on MPT entrance and program requirements at the university of choice.

*Recommended Lower-division Preparation: The following courses at Saddleback College are recommended as preparation for a major, as general education, or as electives to meet minimum screening requirements for CSU MPT programs: BIO 11, 12; CHEM 1A, 1B; MATH 10; PHYS 2A, 2B; PSYC 1.

Program examples - Independent Colleges & Universities:

LOMA LINDA UNIVERSITY

BS/MPT Degree in Physical Therapy

Lower-division Requirements:

Domain 1: Spiritual and Cultural Heritage (Total of 14 semester units minimum in Domain 1)

Religion (3-6 units): Any religion or humanities courses.

Cultural Heritage (8 semester units minimum): Select courses in two areas from: ART 20; ENG 15A, 15B, 17A, 17B, 21A, 21B; French, German, Italian, Japanese, or Spanish 3-4; any foreign language; HIST 4, 5, 16, 17, 19; MUS 20 (Applied Art/Music one semester hour maximum); PHIL 1, 12, 15.

Domain 2: Scientific Inquiry and Analysis:

Natural Sciences: BIO 11 and 12 (sequence); or BIO 1A-1B (sequence); CHEM 1A-1B (sequence) and PHYS 2A; or PHYS 4A-4B-4C sequence and CHEM 108; also BIO 15 and MATH 10.

Social Sciences: ANTH 2 or CCS 1 or 2 (required); PSYC 1, 7.

Domain 3: Communication: CIM 112; ENG 1A and 1B; SP 5.

Domain 4: Health and Wellness: FN 50; and select two units of PE (activity).

Work Experience: A minimum of 80 hours, work/observation experience (volunteer/employee) in a physical therapy department, 20 hours of which must be in an in-patient setting.

Note: All courses must be completed with a grade of "C" or better. "C minus" grades are not transferable for credit.

MOUNT ST. MARY’S COLLEGE

Emphasis in pre-Physical Therapy - Biological Sciences

Lower-division Preparation: BIO 1A, 1B; CHEM 1A, 1B; CIM 1 or CS 1A; MATH 10; PHYS 2A, 2B; PSYC 1; SOC 1 or 3; select two psychology elective courses from: PSYC 2, 3, or 7.

For further information regarding program requirements, contact Mount St. Mary’s College or the Counseling Services office at Saddleback College.

Physical Therapy Assistant (PTA)

Lower-division Preparation: BIO 11, 12; ENG 1A, 1B; GERO 115; PSYC 1. For philosophy elective choose one course from: PHIL 1, 12, 15; AND for religious studies elective choose: PHIL 10 or 14.
For further information regarding program requirements, contact Mount St. Mary’s College or the Counseling Services office at Saddleback College.

UNIVERSITY OF SOUTHERN CALIFORNIA

Entry-Level Doctoral of Physical Therapy (DPT) Program

Applicants to the three-year entry-level Doctor of Physical Therapy (DPT) Program must satisfy all requirements for Graduate School admission, including a minimum Graduate Record Exam composite score of 1000 for the Verbal and Quantitative components. The USC Graduate School requires a 3.0 minimum cumulative undergraduate GPA. Also, all applicants must hold a baccalaureate degree by the date of projected enrollment (August of each year).

Lower-division Preparation:

Prerequisite courses which may be completed at Saddleback College are as follows: A minimum of four semesters of biological sciences courses to include BIO 1A, 1C, 11 and 12 CHEM (1A and 1B or 12A and 12B); ENG 1A; MATH 3A or 11; PHYS 2A and 2B sequence; PSYC 1 and 7 or 37. Other: A cross-cultural course in sociology is recommended; experience in the use of computers as a tool for independent learning is also highly recommended; substantial clinical experience is highly recommended in a volunteer or paid capacity in the physical therapy field.

Physician Assistant

Masters in Physician Assistant Practice

A bachelor’s degree from an accredited institution is required and completion of all PA-prerequisite coursework for admission to USC’s PA program.

Lower-division Preparation for Prerequisites: ENG 1A, 1B; BIO 1A, 1B, 11, 12, 15; CHEM 1A and 1B; Intermediate Algebra (MATH 253 or higher); MATH 10; PSYC 1. Note: Proficiency in Spanish is recommended by USC.

Students are advised to contact USC’s Primary Care Physician Assistant Program Admissions Office at (323) 442-1879 for further details regarding PA admissions requirements.

Note: Please refer to the “Transferring to USC” booklet for general education course requirements and other admissions information available in Saddleback’s Counseling Services office or the Career Center.

LOMA LINDA UNIVERSITY

Masters in Physician’s Assistant

The applicant must have either a B.S. degree in a health-related field such as Emergency Medical Care, Respiratory Therapy, Medical Technology, Nursing, Radiation Technology, or an A.S. degree in a health-related field plus a baccalaureate degree in any field. Degrees must be from accredited institutions.

Lower-division Preparation: BIO 11, 12, 15; CHEM 10B; ENG 1A, 1B; MATH 8, 10; PHYS 2A; PSYC 1; SOC 1 or ANTH 2.

Students are advised to contact Loma Linda’s School of Allied Health Professions at (800) 422-4558 for more details regarding admissions and program requirements.

WESTERN UNIVERSITY OF HEALTH SCIENCES

Physician Assistant Program

Lower-division Preparation: BIO 11, 12, 15; CHEM 1A or 1B; ENG 1A, 1B; MATH 8; PSYC 1; SOC 1; select 9 units in Humanities (i.e., art, ethics, foreign languages, music, philosophy, religion). Spanish is strongly recommended by Western University.

Students are advised to contact Western University of Health Sciences for further details regarding this program.

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Science in Physics

Lower-division Preparation: CHEM 1A, 1B; MATH 3A, 3B, 3C; and PHYS 4A, 4B, 4C. Note: All courses must be completed with a grade of "C" or better.

CALIFORNIA STATE UNIVERSITY, LONG BEACH

Bachelor of Science in Physics

Lower-division Preparation: BIO 1A or 20; CHEM 1A, 1B; MATH 3A, 3B, 3C; PHYS 4A, 4B, 4C. Note: Physics major coursework must be completed with a minimum "C" average.

UNIVERSITY OF CALIFORNIA, IRVINE

Bachelor of Science in Physics

*Lower-division Core Requirements: MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C, 4D; after transfer, students will be required to complete a mathematics workshop at UCI.

*At the time of catalog publication, CS 14 or 15 are the approved equivalents for UCI’s Physics 53 (C programming related course), but, both of these Saddleback College courses are not currently being offered. Students are advised to consult with a UCI advisor or contact the Counseling Services office at Saddleback College regarding this requirement, or complete after transfer at UCI.

G.E. Breadth requirements: Information regarding UCI’s G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org

Plant Science

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Bachelor of Science – Plant Science (Botany) Major

Students selected for this UCR major will need an overall 2.70 GPA in all UC-transferable coursework.

Lower-division Preparation: BIO 1A, 1B, 1C; MATH 3A, 3B; CHEM 1A, 1B, 12A, 12B; PHYS 3A-3B or 4A-4B-4C sequence. Note: ENG 1A and 1B are recommended prior to transfer as well as third-semester proficiency in one foreign language (breadth requirement).

IGETC is not recommended for this major. Information regarding appropriate courses meeting UCR’s G.E. breadth requirements is available in Saddleback’s Counseling Services office or Career Center.

Note Regarding Other Campus Programs:

Applied majors in agronomy at Cal Poly Pomona and crop science at San Luis Obispo require more-specific lower-division agricultural science courses. Students interested in transferring into one of these programs should refer to the articulation agreements on file in Saddleback’s Counseling Services Office for Career Center for information on appropriate courses meeting major requirements and general education courses required in support of the major. The biology and chemistry requirements listed above are minimal preparation for any of these majors.

Political Science

CALIFORNIA STATE UNIVERSITY, FULLERTON

Bachelor of Arts in Political Science

Lower-division Preparation: PS 1 is a graduation requirement for all students and is not part of the political science major but is a prerequisite to further work in political science at CSUF. Students may apply no more than nine units total in lower-division courses toward the major: PS 4 (required) and two additional courses may be applied toward the major from the following: PS 3, 4, 12, 14 or 17.
Note: Students interested in the Single Subject Matter Preparation Program (Secondary Teaching) in Social Sciences, ADD the following courses: ECON 2, 4; GEOG 2 or 3; HIST 4, 5, 16, 17, 32; PHIL 1 or 10; also select one behavioral science course from: ANTH 1, 2, 9 or PSYC 1 or SOC 1.

General education requirements may be certified by following the CSU general education certification pattern outlined in this catalog.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in Political Science

Lower-division Requirements: PS 1. Recommended electives (maximum of 6 units): PS 4 and 12.

General education requirements may be certified by following the CSU general education certification pattern outlined in this catalog.

CALIFORNIA STATE UNIVERSITY, SAN MARCOS
Bachelor of Arts in Political Science

Preparation for the Major: PS 1.

Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English. CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The "language other than English" and "computer competency" requirements must be met with a grade of "C" or better. Refer to the CSUSM catalog for more information.

General Education: Refer to the introduction to this section of the catalog for information regarding certification of general education requirements for the California State University.

SAN DIEGO STATE UNIVERSITY
Bachelor of Arts in Political Science

This is an impacted program. Refer to the SDSU catalog for information regarding GPA requirements and admissions selection criteria.

Preparation for the Major: PS 1, 4, 12 and MATH 10.

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

Students majoring in political science must complete a minor in another field to be approved by the chair of the SDSU major department. General education requirements may be certified by following the CSU general education certification pattern outlined in this catalog.

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Arts in Political Science

Lower-division Requirements: PS 4 and select two courses from: PS 1, 3, 10, 11, 12, 14, 17, 21, 61, 75, 80; AND

Select one course from: ANTH 1, 2, 3, 4, 6, 7, 9, 10, 13, 21; CCS 1, 2; ECON 2, 4, 6 (or ENV 6); 11; ECON 20; GEOG 1, 2, 3, 38; PSYC 1, 2, 3, 7, 16, 21, 30, 35, 37; SOC 1, 2, 3, 4, 5, 6, 10, 15, 20, 21, 25, 30; AND

CIM 10 or (CIM 2A and 10) or CS 1C; and MATH 3A, 3B or a one-year statistics sequence taken after transfer.

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org

UNIVERSITY OF CALIFORNIA, LOS ANGELES
Bachelor of Science in Psychobiology

The psychobiology major involves the study of brain-behavior relations and laboratory training in standard brain research techniques. The psychobiology major is designed for students who plan to go on to postgraduate work in physiological psychology, neuroscience, behavioral aspects of biology, or the health sciences.

Lower-division Preparation: BIO 1A, 1B, 1C; CHEM 1A, 1B, 12A, 12B; MATH 3A, 3B; PHYS 3A and 3B or 4A and 4B and 4C; PSYC 1. UCLA recommends completion of MATH 10 prior to transfer.

Psychobiology

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in Psychology

Lower-division Requirements: MATH 10*, PSYC 1, 2*. Note: A maximum of nine lower-division units of psychology courses are transferable toward the psychology major. Additional lower-division units taken in psychology at a community college and approved by CSUF may be used for university credit for graduation.

*MATH 10 cannot double-count for G.E. and Psychology major requirements. Students should complete an additional general education mathematics course prior to transfer.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in Psychology

Lower-division Preparation: MATH 10*; PSYC 1*, 2*, 3.

Note: The Psychology major at CSULB has been designated impacted. Refer to the CSULB catalog for further details regarding GPA requirements other admissions selection criteria.

*CSULB screening criteria for this impacted major.

CALIFORNIA STATE UNIVERSITY, SAN MARCOS
Bachelor of Arts in Psychology

Lower-division Requirements: MATH 10; PSYC 1, 2.

Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English. CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The "language other than English" and "computer competency" requirements must be met with a grade of "C" or better. Refer to the CSUSM catalog for more information.

SAN DIEGO STATE UNIVERSITY
Bachelor of Arts in Psychology

This is an impacted program. Refer to the SDSU catalog for information regarding GPA requirements and admissions selection criteria.

Lower-division Requirements: BIO 20; MATH 10; PSYC 1, 3, 7.

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

SDSU recommends that psychology majors take a minimum of three units of general education biology coursework.
A minor is not required for this major. However, depending on career goals, students may wish to consider minors in areas such as biology, business, public administration, recreation, or social work. Contact SDSU for more information regarding this major.

**IMPORTANT:** Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

**General Education**—For CSUF, CSULB, CSUSM, and SDSU general education, refer to the California State University general education certification section of this catalog for specific requirements. It is recommended that general education certification be completed prior to transfer.

### CHAPMAN UNIVERSITY

**Bachelor of Arts in Psychology**

**Recommended Lower-division Preparation:** PSYC 1; MATH 10.

**Note:** Chapman University accepts either the CSU G.E. Certification or CSU IGETC Certification in fulfillment of their Basic Subjects, Preparatory Skills, and G.E. Breadth requirements. Refer to the Chapman University Catalog for information on Chapman’s Common Requirements in foreign language and cultural heritage.

### UNIVERSITY OF CALIFORNIA, IRVINE

**Bachelor of Arts in Psychology**

(In fulfillment of the requirements below, a single course may be used only once)

**Lower-division Preparation for the Major:** PSYC 1 and 3 and 30 or 35 (the preceding courses must be completed to receive transfer credit for UCI’s Psychology 9A-B-C required sequence); also select one course from: PSYC 2, 7, 16, 21, 37, (30 or 35 if not taken above); and select two courses from: ANTH 1 or 2, ECON 2 or 4; PS 4; SOC 1; and

CIM 10 or (CIM 2A and 10) or CS 1C; also complete MATH 3A and 3B or a one-year statistics sequence taken at UCI after transfer; and

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: www.assist.org.

### UNIVERSITY OF CALIFORNIA, LOS ANGELES

**Bachelor of Arts in Psychology**

**Lower-division Preparation for the Major:** ANTH 1; BIO 20 or BIO 1A and 1B; CHEM 1A or 3; PHYS 2A or 3A or 4A or 20; PSYC 1; Select one course from the following: MATH 3A, 9, 10*, 11 or CIM 6A (*UCLA recommends completion of MATH 10); and select one course from PHIL 1, 12, or 15.

**Note:** Admission is highly selective. Applicants with the strongest academic preparation and performance will be the most competitive for admission.

### CALIFORNIA STATE UNIVERSITY, FULLERTON

**Bachelor of Arts in Political Science - Public Administration Option**

Both CSU Long Beach and CSU Fullerton offer options in public administration within the political science major.

**Lower-division requirements at CSULB include:** PS 1; three units of economics and three units of statistics (MATH 10). Up to six units of lower-division electives may be chosen: PS 4 and 12 are recommended.

The lower-division requirements for CSU Fullerton’s Concentration in Public Administration are the same as those for the Political Science major. (See previous section of this catalog.)

**General Education:** Refer to the CSU general education certification requirements in the introduction to this section of the catalog.

### SAN DIEGO STATE UNIVERSITY

**Bachelor of Arts in Applied Arts and Sciences with a Public Administration Major**

**Lower-division Preparation:** ACCT 1A; CIM 1 or 10; ECON 2, 4; MATH 10; PS 1.

**Foreign Language Requirement:** Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3; SL 3 at Saddleback College).

**General education requirements may be certified by following the CSU general education certification pattern.**

**IMPORTANT:** Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

### CALIFORNIA STATE UNIVERSITY, LONG BEACH

**Bachelor of Arts in Film and Electronic Arts (Option in Film and Electronics Media; Option in Film and Video Production)**

**Recommended Lower-division Preparation:** No equivalent for CSULB’s FEA 200 (screening criteria course for this impacted major) which must be taken after transfer. Students interested in this major should refer to the CSULB catalog and contact CSULB for details regarding admissions requirements.

**General Education:** Refer to California State University certification of general education requirements outlined in this catalog.

### CALIFORNIA STATE UNIVERSITY, NORTH RIDGE

**Bachelor of Arts in Cinema and Television Arts**

**Recommended Lower-division Preparation:** CA 1 or JRN 1; CA 30, 40; PHOT 50; and one course from: CA 110 or 124.

**Note:** Admission to this program is limited. Students must initially apply for admittance into the Pre-major. Students are advised to contact a CSUN program advisor prior to transfer.

### SAN DIEGO STATE UNIVERSITY

**Bachelor of Arts (Communication)**

**Emphasis in Media Management or Telecommunications and Film:**

The major is designated as impacted and has enrollment limitations and requires additional application procedures. Students are advised to contact SDSU for further information.

**Emphasis in Media Management:**

**Lower-division Preparation:** CA 1 or JRN 1; JRN 2 or CA 40; ECON 2; PS 1; 4; Foreign Language Requirement: Competency in one foreign language equivalent to that which is normally attained through three consecutive courses of university study.

**Emphasis in Telecommunications & Film:**

**Lower-division Preparation:** CA 1 or JRN 1 and CA 30, 40; and select two courses from CA 31, 110, 124;

**Foreign Language Requirement for programs listed:** Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3; SL 3 at Saddleback College).

**IMPORTANT:** Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

**Bachelor of Science (Applied Arts & Sciences) in Television-Film and New Media Production Major**

The Television-Film program at SDSU is designed to prepare students for professions in television, film, and new media production. The degree also serves those in occupations where extensive knowledge is required of message design for these media and their various distribution systems. The program focuses on skills required for careers as producers, directors, art directors, production assistants, and writers.
This major is designated as an impacted program and has enrollment limitations and requires additional application procedures. Students are advised to contact SDSU for further information.

**Lower-division Preparation for the Major:** CA 30, 31, 32, 40, 110, 124, 125; JRN 1 or CA 1.

**Foreign Language Requirement:** Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

**IMPORTANT:** Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

Refer to the CSU general education certification requirements in the introduction to this section of the catalog.

**ALSO SEE COMMUNICATIONS**

### Recreation

**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

**Bachelor of Arts in Recreation**

Lower-division Preparation: REC 100 plus additional courses after transfer.

Recommended General Education Courses: TA 20 or MUS 20; PSYC 1; SOC 1.

**Note:** Per CSULB, students earning less than a "C" grade in a required course for the major must repeat that course.

### Religious Studies

**CALIFORNIA STATE UNIVERSITY, FULLERTON**

**Bachelor of Arts in Religious Studies**

Lower-division Preparation: The major at CSUF requires nine units of lower-division religion courses. PHIL 10 may satisfy three of the nine units required. Each course counted toward the major must be completed with a grade of "C" or better.

CSUF also recommends the study of a classical language such as Arabic, Greek, Hebrew, Latin, or Sanskrit.

### Social Ecology

**UNIVERSITY OF CALIFORNIA, IRVINE**

**Bachelor of Arts in Social Ecology**

Lower-division Major Requirements: ENV 1; MATH 10; PSYC 1 and SOC 1 (both must be taken to receive credit for UCI’s PSY BEH 9).

G.E. Breadth requirements: Information regarding UCI G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: [www.assist.org](http://www.assist.org)

### Social Sciences

**CALIFORNIA STATE UNIVERSITY, SAN MARCUS**

**Bachelor of Arts in Social Sciences**

**Preparation for the Major:** MATH 10; AND

Primary Field (Students must complete all the requirements for ONE Primary Field from the following): **Economics:** ECON 2, 4; **History:** select sequential two-semester survey courses from: HIST 4, 5 or HIST 7.8 or HIST 16, 17 or HIST 27, 28 or HIST 40, 41 or HIST 70, 71; **Political Science:** PS 1; **Psychology:** PSYC 1, 2; **Sociology:** SOC 1; AND

Secondary Field: Select any two additional courses from the following which are different from those courses selected for the "Primary Field"; ECON 2, 4; any CSU-transferable History course; any CSU-transferable Political Science course; PSYC 1; or SOC 1.

**Note:** Before graduating, CSUSM students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of "C" or better. Refer to the CSUSM catalog for more information.

### SAN DIEGO STATE UNIVERSITY

**Bachelor of Arts - Social Sciences Major**

Lower-division Preparation: MATH 10; and two courses selected in three fields from: ANTH 1, 2; ECON 2, 4, 20; GEOG 1, 2; HIST 7 and 8 or 16 and 17; PS 1, 4, 12; SOC 1, 2.

**Foreign Language Requirement:** Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

General Education: Refer to the CSU general education certification section in this catalog for specific requirements.

**IMPORTANT:** Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

**UNIVERSITY OF CALIFORNIA, IRVINE**

**Bachelor of Arts in Social Sciences**

Students majoring in Social Sciences must choose a specialization from the following: Multicultural Studies, Public and Community Service, Research and Analytical Methods, or Social Studies.

**Note:** In fulfillment of the requirements listed, a single course may be used only once.

**Required Core Courses:** MATH 3A and 3B or a one-year statistics sequence taken after transfer; AND select one course from: ANTH 1, 2, 3, 9 or ECON 2, 4 or GEOG 1, 2, 3 or PS 4 or PSYC 1 or SOC 1.

**Multicultural Studies Specialization ADD:** SOC 20 and one course from: ANTH 4, 6, 7 or CCS 1, 2 or PS 21 or PSYC 16 or 21 or SOC 4, 5, 6, 21.

**Research and Analytical Methods Specialization ADD:** two courses from: ANTH 2 or ECON 2 or 4 or PS 4 or SOC 2.

**Social Studies Specialization ADD:** five courses from at least three different social science disciplines: ANTH 1, 2, 3, 4, 6, 7, 9, 10, 13, 21; CCS 1, 2; ECON 2, 4, 6 (or ENV 6), ECON 11, 20; GEOG 1, 2, 3, 38; PS 1, 3, 4, 10, 11, 12, 14, 17, 21, 61, 75, 80; PSYC 1, 2, 3, 7, 16, 21, 30, 35, 37; SOC 1, 2, 3, 4, 5, 6, 10, 15, 20, 21, 25, 30.

**G.E. Breadth requirements:** Information regarding UCI G.E. requirements is available in Saddleback’s Counseling Services Office or refer to the ASSIST website at: [www.assist.org](http://www.assist.org)

**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

**Bachelor of Arts in Social Work**

Required Lower-division Preparation: ANTH 2*; BIO 113*; HS 100, 110 or 150; MATH 10*; PSYC 1*; SOC 1*.

**Note:** Screening criteria equivalencies for this impacted major.

**Social Work**

The Social Work program at CSULB is impacted. Applicants are subject to supplemental criteria and GPA requirements. Refer to the CSULB catalog for further details regarding program requirements.
SAN DIEGO STATE UNIVERSITY
Bachelor of Arts Degree in Liberal Arts and Sciences with a Major in Social Work

Lower-division Preparation: ANTH 1 or BIO 20; ECON 2 or 4 or 20; HLTH 1; MATH 10; PSYC 1; SOC 1; additional lower-division coursework to be completed after transfer.

Foreign Language Requirement: Proficiency equivalent to a Foreign Language level 3 is required. (Examples: FR 3, GER 3, SPAN 3, SL 3 at Saddleback College).

IMPORTANT: Effective Fall 2003 students transferring to SDSU must have completed at least 60 transferable units.

CHAPMAN UNIVERSITY
Bachelor of Arts in Sociology (Emphasis in Social Work)

Recommended Lower-division Preparation: MATH 10; SOC 1 and SOC 2 or 10.

Note: Chapman University accepts either the CSU G.E. Certification or CSU IGETC Certification in fulfillment of their Basic Subjects, Preparatory Skills, and G.E. Breadth requirements. Refer to the Chapman University Catalog for information on Chapman’s Common Requirements in foreign language and cultural heritage.

CALIFORNIA STATE UNIVERSITY, FULLERTON
Bachelor of Arts in Sociology

A maximum of nine lower-division units may be transferred from a community college and applied to the 36 units required in the major. Minimum requirements include SOC 1. Although no other equivalencies exist, the following sociology courses may be transferred for credit toward the major within the nine-unit limitation:

SOC 1 (required); and select two courses from: SOC 15, 20 (or HIST 20), 21, 25, 30 (or PSYC 30). Coursework must be completed with a grade of "C" or better.

It also is recommended that general education requirements be certified prior to transfer. See the CSU general education certification section for specific requirements.

CALIFORNIA STATE UNIVERSITY, LONG BEACH
Bachelor of Arts in Sociology

Lower-division Preparation: SOC 1, 2, and MATH 10. CSULB recommended elective: ANTH 2.

General Education: See CSU general education certification section for specific requirements.

CALIFORNIA STATE UNIVERSITY, SAN MARCOS
Bachelor of Arts in Sociology

Lower-division Preparation: MATH 10 and SOC 1.

Note: Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and “computer competency” requirements must be met with a grade of “C” or better. Refer to the CSUSM catalog for more information.
**Speech Communication**

**CALIFORNIA STATE UNIVERSITY, FULLERTON**

Bachelor of Arts in Speech Communication

*Lower-division Requirements:* SP 1; and additional lower-division courses to be taken at CSUF after transfer.

Students are advised to consult with a CSUF program advisor regarding selection of program electives (Examples: SP 2, 3, 4, 5, 35).

**CALIFORNIA STATE UNIVERSITY, LONG BEACH**

Bachelor of Arts in Speech Communication

The Department of Communication Studies at CSU Long Beach offers three undergraduate degree programs in Communication arts and sciences: The B.A. in Speech Communication, the Option in Interpersonal and Organizational Communication, and the Option in Rhetorical Studies.

*Recommended Lower-division Preparation for all Speech and Communication Programs/Options:* 12 units from the following: SP 1, 3, 4, 5, 35.

**Theatre Arts**

**Veterinary Medicine**

**UNIVERSITY OF CALIFORNIA, DAVIS**

Requirements for Admission to the School of Veterinary Medicine:

Candidates for admission to the UC Davis veterinary medicine program must have completed the equivalent of at least 72 semester units at an accredited college or university. The undergraduate program should include plans to obtain a baccalaureate degree.

*Lower-division Preparation:* BIO 1A and 1C; CHEM 1A, 1B, 12A, 12B; PHYS 2A and 2B.

*Additional Requirements:* ENG 1A, 1B, and one other UC-transferable English course (English, rhetoric, speech, or literature); MATH 10; and three UC-transferable courses in humanities and social sciences (history, sociology, languages, music, art, psychology, ethnic studies, anthropology).

*Veterinary and Animal Experience:* A minimum of 180 hours of relevant veterinary and animal experiences with types of activities that give an understanding and appreciation of veterinary medicine must be met in order to have an application evaluated by the Admission Committee.

Students are advised to contact the School of Veterinary Medicine at UC Davis at (530) 752-1383 or access their website at: www.vetmed.ucdavis.edu/admission/admission.html and ASSIST at: www.assist.org

**WILDLIFE MANAGEMENT**

**HUMBOLDT STATE UNIVERSITY**

Bachelor of Science in Wildlife

*Lower-division Preparation:* BIO 1A, 1B, 1C; MATH 2 or 3A or 11 or (8 and 124); and CHEM 1A plus CHEM 1B or PHYS 2A, or complete after transfer. Recommended: CIM 1 or 10.

**Women's Studies**

**CALIFORNIA STATE UNIVERSITY, SAN MARCOS**

Bachelor of Arts in Women's Studies

The California State University, San Marcos program holds a membership in the National Women's Studies Association. Students with a Women's Studies background work in a variety of fields, including journalism, the arts, counseling, teaching, public administration, and business. Students interested in graduate study in Women's Studies have an array of programs available around the country, including master's and doctorate programs and certificates in Women's Studies earned in connection with another discipline.

*Lower-division Requirements:* WS 10; and select one course from the following: ANTH 21; ART 21; BIO 46; BUS 159; ENG 35, 46, 50; HIST 21; HLTH 3; MUS 29; PSYC 21; SOC 21; WS 21, 40, 100, 120; and three elective units may be completed prior to transfer selected from: WS 189 courses.

*Note:* Before graduating, CSU San Marcos (CSUSM) students must demonstrate proficiency in a language other than English by examination or by completion of Level 3 of a language course other than English-CSUSM also accepts American Sign Language (ASL) in fulfillment of this requirement (SL 3 at Saddleback College). Computer competency is also a graduation requirement which may be met by examination or by completing a computer applications course (e.g., CIM 1 or CS 1A at Saddleback College). The “language other than English” and "computer competency" requirements must be met with a grade of "C" or better. Refer to the CSUSM catalog for more information.

**UNIVERSITY OF CALIFORNIA, IRVINE**

Bachelor of Arts in Women's Studies

(In fulfillment of the requirements below, a single course may be used only once.)

*Lower-division Major Requirements:* Select two courses from: WS 10 or 21 or (30 and ANTH 21) or PSYC 21 or SOC 21; and two courses from: ART 21; ENG 35, 46, 50; HIST 21; MUS 29; WS 10, 40; and ENG 1A and 1B, ADD one foreign language sequence from: FR 3-4; GER 3-4; ITA 3-4; JA 3-4; SPAN 3-4; AND

Also select one year-series/sequence selected from:

*Art History:* ART 25, 26

*History:* HIST 4-5 or 7-8 or 16-17 or 40-41 or 60-61 or 70-71

*Literature:* ENG 15A-15B or 17A-17B or 18-19 or 21A-21B

*Philosophy:* no equivalents; AND

Select one additional course not already taken from one of the categories listed above.

*Information regarding UCI General Education breadth requirements is available in Saddleback’s Counseling Services Office, or refer to ASSIST at www.assist.org*

**UNIVERSITY OF CALIFORNIA, RIVERSIDE**

Bachelor of Arts in Women's Studies

*Lower-division Preparation:* ANTH 21; WS 10 or MUS 29.

Completion of IGETC prior to transfer is recommended by UC Riverside for this major.
CHAPMAN UNIVERSITY

Bachelor of Arts in Sociology (Emphasis in Women’s Studies)

Lower-division Preparation: MATH 10; SOC 1; WS 10.

Note: Chapman University accepts either the CSU G.E. Certification or CSU IGETC Certification in fulfillment of their Basic Subjects, Preparatory Skills, and G.E. Breadth requirements. Refer to the Chapman University Catalog for information on Chapman’s Common Requirements in foreign language and cultural heritage.

IMPORTANT NOTE:

The preceding examples of articulated major programs for representative colleges were based on articulation information available at the time of Saddleback College catalog publication, and are subject to change as articulation is a year-round process.

The counseling staff at Saddleback College, in cooperation with instructional divisions, will continue to develop articulation and transfer agreements, especially for those majors about which a number of students inquire.

Additional information is available in Saddleback College’s Counseling Services office or the following websites.

Saddleback College Articulation and Transfer Websites:

http://iserver.saddleback.cc.ca.us/serv/couns/artic
http://iserver.saddleback.cc.ca.us/serv/couns/igetc
http://iserver.saddleback.cc.ca.us/serv/couns
http://iserver.saddleback.cc.ca.us/serv/trans

ASSIST:

ASSIST is the official California state-wide database listing a selection of campus-approved transfer agreements, G.E. requirements, and information on UC and CSU-transferable courses: ASSIST:

www.assist.org

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Students are strongly advised to contact a Saddleback College counselor for more information and details regarding articulation agreements and transfer options for your college choice.
Announcement of Courses

Course Numbering System Defined

Unless exceptions are noted following the course description in the college catalog, the following numbering system governs the applicability of courses toward completion of programs.

1-199  Courses which are parallel to baccalaureate-level courses and, as such, are offered for transfer to four-year colleges and universities. The California State University system accepts courses in this category for credit. As a general rule, numbers 1-99 are used to designate courses which are accepted by the University of California. Exceptions to this rule are noted following the course description, in such cases, students should refer to the UC Course Agreement for details regarding credit limitations.

200-299  Courses which are typically intended for certificate and associate degree programs or for skill development related to both basic skills and employment. Courses from several disciplines may be offered in this category of interest and value to all ages, but particularly to the mid-life and older-adult student. Course content is related to both skill development and acquisition of knowledge for second-career development or information applicable to developing survival skills or to roles in the community at large.

Occasionally these courses are accepted for transfer credit by four-year institutions. (The determination of acceptance of these courses will be made by the receiving institution.)

300-399  Courses which are generally remedial and college preparatory. Courses in this category completed Fall 1988 and later will not be applicable to associate degrees.

400-499  Courses which generally provide vocational training but are not degree applicable. Many of these courses are open-entry–open-exit and/or are scheduled for less than a full semester.

Prerequisites, Corequisites, Limitations and Recommended Preparations

“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. (Article 2.5 §65500)

All courses shall be open for enrollment to any student who has been admitted to the college, except that students may be required to meet necessary and valid prerequisites. The term “prerequisite” also includes “corequisites,” which require a student to concurrently enroll in one course as a condition of enrollment in another course.

Recent state laws require the enforcement of prerequisites. Beginning Fall 1995 any student enrolling in a designated course with a prerequisite must show evidence of completion of the prerequisite course or the equivalent with a satisfactory grade. To complete the appeals process, further information, contact the Matriculation Office.

“Limitation on enrollment” include auditions, physical examination, and admission to a particular program.

“Advisory or recommended preparation” means a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or education program. (Article 2.5 §65500)

“Advisories” are indicated in the catalog description as “recommended preparation.” Students who have had training or experience which they feel is equivalent to an advisory course may enroll in the course level appropriate with their experience.

Concerns about enrolling in courses with advisories should be discussed with the instructor, dean, or a counselor.

Repeatable Courses

A completed course may be repeated with the following provisions:

1. Previous grades and credits for repeated courses will be disregarded in the computation of the student’s grade point average.

2. When courses are repeated, credit will be given only once and previously recorded coursework shall remain on the student’s transcript. The transcript will show which courses were excluded for purposes of grade-point calculation, insuring a true and complete academic history.

3. Courses in which skill development may require more than one semester may be repeated. These classes involve skill progression and often require intensive individual instruction in specific areas. The model under which a course may be repeated is presented by a code which includes R- and the model for repeating. For example, R-A. This code indicated by the (R-) following the course description in the “Announcement of Courses” section of this catalog.

4. When counting the number of times a course can be taken, begin with Fall 1983. Thus, courses taken in Fall Semester 1983 or later may have already used up some of the “takes” of that course.

5. Once a student has taken a more advanced course they cannot go back and repeat a lower-level course.

6. Courses without a Repeat (R) Code cannot be repeated.

7. A course previously completed with a satisfactory grade may not be repeated except by approval of the Admissions Office, by a student petition reflecting unusual circumstance.

Models for repeating courses are:

Model A courses: These are separate and distinct courses in a skill-building sequence. Any combination of courses within the sequence (beginning, intermediate, advanced) may be taken a maximum of four times combined.

Model B courses: These courses have one course number and title but more than one course outline. Each time it is offered, a separate and distinct course outline will be used.

Model C courses: These courses have one course number and title but more than one course outline. A student enrolling for the first time follows outline No. 1 and is graded on achievements of the objectives therein. Subsequent enrollments require the student to follow course outlines 2, 3, or 4 in progressive order. These course outlines reveal a clear progression of skills development.

Model D courses: These courses are offered several times with the same course number and title but with a different theme. These will be labeled 1, 2, or 3 with a theme subtitle. A student may enroll in 1, 2, or 3 and thereby repeat the course but may not be enrolled twice in either 1, 2, or 3.

Model E courses: This course has one course number and title but has a different syllabus each time it is offered. The course may be taken a total of four times to afford development through supervised practice or group assignments. Courses not identified as repeatable by one of the above models may not be repeated.

Note: Students who have earned a substandard grade, that is, D, F, and/or NC, in a course are allowed to repeat the course one more time regardless of whether it is repeatable or not.

All courses designated as repeatable afford the student the opportunity to develop skills; and all such repetitions count, where applicable, to the associate degree. Transfer students, however, should be aware that limitations on transfer credit for course repetitions are generally placed by most universities.
**Accounting**

**ACCT 1A**  
**FINANCIAL ACCOUNTING**

The study of accounting as an information system using a double-entry accounting method. The financial accounting cycle includes the study of financial statements, merchandising operations, accounting systems, cash and short-term investments, receivables and notes, inventories, plant assets and depreciation, current liabilities, notes payable and payroll, financial statement disclosures, long-term liabilities, corporations, stockholder’s equity, earnings, dividends, and investments in stock. Course may be offered by mediated mode of instruction.

**ACCT 1B**  
**MANAGERIAL ACCOUNTING**

Recommended Preparation: ACCT 1A  
The study of financial statement analysis and managerial accounting concepts and principles as well as manufacturing and non-manufacturing costs, product and period costs, job order cost system, materials, labor, factory overhead, work in process and finished goods, process cost systems, equivalent units, cost-volume-profit analysis, fixed and variable costs, sales mix considerations, absorption and variable costing, the master budget, standard costing, accounting for cost, profit and investment centers, differential analysis, product pricing, capital budgeting including discounted cash flow, and capital rationing. Course may be offered by mediated mode of instruction.

**ACCT 201**  
**INTERMEDIATE ACCOUNTING I**

Prerequisite: ACCT 1A  
Recommended Preparation: ACCT 1B  
Review of fundamental accounting processes; in-depth studies of working capital involving cash and temporary investments, receivables, inventory evaluation procedures and current liabilities; stock investments.

**ACCT 202A**  
**INTERMEDIATE ACCOUNTING II**

Prerequisite: ACCT 1A  
Recommended Preparation: ACCT 201A  
Continued in-depth studies of noncurrent assets and liabilities including investments in bonds, bond redemption funds; plant and equipment acquisition; use and retirement problems; paid-in capital and retained earnings; analytical processes relating to statement analysis, comparative data, ratios, and measurements; funds-flow and cost-flow reporting.

**ACCT 203**  
**COST ACCOUNTING**

Prerequisite: ACCT 1B  
Survey of cost accounting; job-order, process, and standard cost concepts; emphasis on costing methods for materials, labor, and factory overhead; preparation and analysis of financial statements rendered from cost data.

**ACCT 204**  
**COMPUTER APPLICATIONS FOR ACCOUNTING**

Recommended Preparation: ACCT 215 or 1A  
Designed to teach the computer as a tool for recording financial accounting transactions. Students will utilize a general ledger software package to record accounting transactions and prepare accounting reports.

**ACCT 206**  
**COMPUTER APPLICATIONS FOR ACCOUNTING USING MICROSOFT OFFICE**

Recommended Preparation: ACCT 215 or 1A, and CIM 216A or 216  
Designed to implement the computer as a tool for recording financial accounting transactions. Students will utilize Microsoft Office to solve accounting problems and present accounting reports. Excel templates will be used to record transactions in general ledger form. The use of Microsoft Access and Excel for accounts receivable, accounts payable, and inventory management will be discussed. Accounting information from spreadsheet and database programs will be transferred to reports prepared with Microsoft Word or presentations using Microsoft PowerPoint.

**ACCT 214**  
**BUSINESS MATHEMATICS**

Reviews mathematics to solve typical business problems including simple interest, compound interest, installment sales, trade and cash discounts, markup percents, pricing, discounting notes and drafts, depreciation, taxes, insurance, statistics, stocks and bonds, and distribution of ownership and profits. Course may be offered by mediated mode of instruction.
ACCT 215  
GENERAL ACCOUNTING  
Basic theory and principles of elementary accounting applicable to a single-proprietorship business. Practical application of accounting theory to the accounting cycles of service and merchandising businesses: bookkeeping practice; debit and credit practice; books of original entry; ledgers, working papers, adjusting and closing entries; income statement, balance sheet, and statement of owners equity, cash, payroll, special journals, merchandising firms. Recommended for students needing a bookkeeping foundation before enrolling in ACCT 1A, and for retailing, sales and merchandising, and office administration majors.

ACCT 216  
INDIVIDUAL INCOME TAX  
Recommended Preparation: ACCT 1A  
Provides an introduction to Federal and California state income tax rules and regulations. Practical applications of the Internal Revenue Code and Franchise Tax Board rules and regulations pertaining to the taxation of individuals are presented. Course may be offered by mediated mode of instruction. R E 3

ACCT 217  
PARTNERSHIP AND CORPORATE TAXATION  
Recommended Preparation: ACCT 1A and 216  
Designed to provide an introduction to Federal and California state corporate and partnership income tax rules and regulations. Practical applications of the Internal Revenue Code and Franchise Tax Board rules and regulations pertaining to the taxation of partnerships and corporations are presented. R E 3

ACCT 221  
INVESTMENT MANAGEMENT  
Recommended Preparation: ACCT 1A or 215, and ACCT 120  
Presents the financial planning process and introduces the legal, ethical, and regulatory issues affecting financial planners, emphasizing the construction of financial statements and analysis of the client’s current financial situation. The course addresses two critical areas applicable to financial planning: the economic environment and time value of money concepts. It also provides a survey of financial planning topics, steps in the analysis of a client’s financial situation, and planning ideas for special needs. R E 1

ACCT 275  
AUDITING  
Prerequisite: ACCT 1B  
Recommended Preparation: ACCT 202A  
Examines the use of financial statement audits and details the audit process. Topics include professional responsibilities of auditors, audit design, sampling approaches, substantive testing, and testing controls.

ACCT 289  
SPECIAL TOPICS  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

ACCT 410  
ANALYSIS OF CORPORATE FINANCIAL STATEMENTS  
Provides practical application of basic financial analysis techniques for analyzing historical financial data from information provided by corporate annual reports. Emphasis is placed on comparison of results to industry standards, competition, and past performance. R E 3

ACCT 420  
CAPITAL, SECURITY, AND INVESTMENT MARKET FUNDAMENTALS  
Fundamentals of capital, security, and investment markets for individuals including the acquisition of assets, such as stocks, bonds, and other securities with emphasis on long-term planning and security analysis. Provides an overview of markets, exchanges, risk, strategy, taxes, money value, inflation, and financial information. R E 3

ACCT 421  
INTRODUCTION TO CORPORATE STOCKS, BONDS, & GOVERNMENT SECURITIES  
Introduces various techniques and methods of measuring desirability of investing in common and preferred stock as well as corporate and government debt securities. Course will cover valuation methods, investor philosophy, and risk. R E 3

ACCT 451  
ANNUAL INCOME TAX UPDATE  
Designed to familiarize students with recent changes in the federal tax code. R E 3

ACCT 222  
INTRODUCTION TO ESTATE AND GIFT TAXES  
Designed to familiarize students with the basics of federal estate and gift taxation. R E 3

ACCT 452  
TAXATION OF PROPERTY TRANSACTIONS  
An introduction to the taxation of real and personal property transactions, including installment sales and like-kind exchanges. R E 3

ACCT 454  
TAXATION OF S CORPORATIONS  
An introduction to advantages and disadvantages of S Corporation treatment and discussion of tax issues affecting corporations making the S Corporation election. R E 3

ACCT 455  
CIVIL TAX PROCEDURE  
An introduction to the civil tax procedure including Internal Revenue Service (IRS) penalties, appeals, collections, and enforcement procedures. R E 3

ACCT 456  
INTRODUCTION TO PAYROLL TAXES AND ACCOUNTING  
Designed to familiarize students with federal and state payroll tax law, including reporting and filing requirements. R E 3

ANTH 1  
PHYSICAL ANTHROPOLOGY  
Emphasizes the study of human origins, genetic and fossil evidence for human evolution, genetic bases for human variation, and our place in the natural world. R E 3

ANTH 1L  
PHYSICAL ANTHROPOLOGY LABORATORY  
Prerequisite: Completion of or concurrent enrollment in ANTH 1  
This is an introductory course in micro- and macro evolutionary theory, primatology, and the paleoanthropological fossil record. Primary focus is on human variation and evolution. R E 3

ANTH 2  
CULTURAL ANTHROPOLOGY  
An introduction to the comparative study of culture and society. Includes examination of human universals and differences in social structure, religion, family life, and political organization in cultures around the world. May be offered by mediated mode of instruction. R E 3
<table>
<thead>
<tr>
<th>Course Prefix</th>
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<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours Per Week</th>
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<tr>
<td>ACCT</td>
<td>220</td>
<td>Introduction to Financial Planning</td>
<td>3/3/0</td>
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**ANTH 3 \(\text{CULTURE AND LANGUAGE}\)**  
Recommended Preparation: ANTH 2  
Language, as an integral part of culture, will be examined in cross-cultural comparison with special emphasis on non-industrialized societies and subcultures. Topics will cover animal communication, the origins of language, the structure of languages and their relationship to content, and the growth and differentiation of languages.

**ANTH 4 \(\text{NATIVE AMERICAN INDIAN CULTURE}\)**  
An introduction to and broad survey of Native American cultures prior to the European arrival with their origins and probable migrations. The course includes several "cultural areas" and focuses on cultural conflicts resulting from the impact of European intrusion.

**ANTH 6 \(\text{CULTURE CHANGE}\)**  
Recommended Preparation: ANTH 2  
A study of cross-cultural change from "vanishing" ways of life to the contemporary Mexican peasant. Emphasis will be placed on changes among Native American Indian cultures as excellent examples of peoples in cultures existing in the Los Angeles area.

**ANTH 7 \(\text{INDIANS OF SOUTHERN CALIFORNIA}\)**  
A comprehensive study of the Indians of Southern California taking into account archaeological evidence, historical aspects, and an examination of the present day status of the Southern California Indians.

**ANTH 8 \(\text{WORLD PREHISTORY}\)**  
An introduction to archaeology and the prehistory of humankind from the earliest traces of hominid evolution to emergence of state-level societies. This will explore prehistoric human behavior and its variability over the past five million years emphasizing major prehistoric events such as the origin of modern humans, the Upper Paleolithic, the advent of agriculture, and the rise of social complexity.

**ANTH 9 \(\text{INTRODUCTION TO ARCHAEOLOGY}\)**  
Prerequisite: ANTH 9  
A comprehensive overview of archaeological theories, methods, and practice. This course emphasizes the scientific practice of archaeology and offers students an informed perspective as to the processes involved in conducting archaeological research and interpreting archaeological remains. Field trips to local archaeological sites.

**ANTH 10 \(\text{THE WORLD OF THE CELTS}\)**  
Prerequisite: ANTH 2 or 0  
Covers a variety of topics concerning the world of the Celts. Areas of study include prehistory, history, mythology, and general culture of those people identified as the Celts.

**ANTH 12 \(\text{DIRECTED GROUP STUDY IN ANTHROPOLOGY}\)**  
Prerequisite: ANTH 2 or 9  
Organized group study on topics selected by students under the sponsorship and direction of a member of the anthropology faculty. Topics will be offered reflecting the faculty member's expertise. R E 2

**ANTH 13 \(\text{MAGIC, WITCHCRAFT, AND RELIGION}\)**  
Cultural parallels and variation in supernatural beliefs and practices. The origin and development of supernaturalism from primeval man through contemporary societies. The techniques of supernatural control and the relativity of "reality." Special topics include myth, religious healing, witchcraft and sorcery, ritual, and millenarian movements.

**ANTH 14 \(\text{CULTURE THROUGH FILM}\)**  
Introduces current issues in cultural anthropology, using film as a medium with which to explore culture. Raises key anthropological questions regarding cultural differences in the context of global inequalities.

**ANTH 15 \(\text{PRIMATE BEHAVIOR}\)**  
Focuses on primates from the perspectives of their taxonomy, behavior, and ecology. Students will learn about data collection and analysis and the importance of primate conservation. Students will survey living primates through examination of case studies focused on representative primate species, and observations at a local zoo.

**ANTH 16 \(\text{ARCHAEOLOGICAL FIELD METHODS}\)**  
Prerequisite: ANTH 9  
An introduction to archaeological field methods. This course will cover the relationship of archaeology and culture, field methods and techniques, field work at a local site, and laboratory analysis of field data. Mandatory field trips required. (Formerly ANTH 110A) R E 1

**ANTH 20 \(\text{INTERCULTURAL COMMUNICATIONS}\)**  
Prerequisite: ANTH 2 or 9  
Designed to reveal how culture influences interaction patterns. As people from different communication climates interact, the markings of culture and perception have an impact of communication. The course will familiarize students with the theory and the process of communicating with people across cultural, ethnic, and racial divides. Students will be left with a better understanding of the meaning of culture and communication. The process of becoming a competent intercultural communicator will be explored through lectures, readings, discussions, and written and oral assignments. Also listed as SP 20. Credit given in either area, not both.

**ANTH 21 \(\text{WOMEN AND CULTURE: CROSS-CULTURAL PERSPECTIVES}\)**
An anthropological approach to the cross-cultural study of women. Emphasis is placed on a comparative study of Western and non-Western societies. The relative status of women in different societies will also be covered from the point of view of female anthropologists.

**ANTH 105A \(\text{SOUTHWESTERN INDIAN CULTURES}\)**  
Recommended Preparation: ANTH 9  
Studies archaeological sites and contemporary Indian cultures of the Southwest. Course will involve meeting Indian families; attending dances; and meeting local Indian specialists demonstrating silversmithing, carving, and pottery-making. ANTH 105A will concentrate on cultures in Arizona.

**ANTH 105B \(\text{SOUTHWESTERN INDIAN CULTURES}\)**  
Recommended Preparation: ANTH 9  
Studies archaeological sites and contemporary Indian cultures of the Southwest. Course will involve meeting Indian families; attending dances; and meeting local Indian specialists demonstrating silversmithing, carving, and pottery-making. ANTH 105B will concentrate on cultures in New Mexico.

**ANTH 108 \(\text{ARCHAEOLOGY OF MEXICO, CENTRAL, OR SOUTH AMERICA}\)**  
Recommended Preparation: ANTH 9  
A lecture/field trip to significant ruins in Mexico, Central, or South America. The trip will include visits to important archaeological museums, excavation sites, Indian markets and other cultural and historical sites. Itineraries and sites included will vary; may not be repeated for field trip to the same site. R E 1
ANTH 189 SPECIAL TOPICS .5-4/.5-4/.5-9

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

ANTH 289 SPECIAL TOPICS .5-4/.5-4/.5-9

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

Applied Psychology

APSY 140 EDUCATIONAL AND VOCATIONAL PLANNING 3/3/0

This course is designed as an instrument of individual and group counseling. Activities are centered on self-analysis including the use of tests and inventories, the analysis of occupational areas and trends, and the study of educational requirements and factors in academic success and personal achievement. Recommended for all freshman students, especially those who are uncommitted to a major or goal. Credit/no credit grading option recommended.

APSY 141 ASSESSMENT OF PRIOR LEARNING 3/3/0

Recommended Preparation: College level writing skills.

Designed to assist students planning to apply for life/career experience toward the associate degree. Students will assess and document their life experiences relevant for college credit with the help of individual and group counseling. Students will develop a portfolio of their life learning to be submitted for faculty evaluation. This course is offered on a credit/no credit basis.

APSY 150 HELPING RELATIONSHIPS 3/3/0

Designed to aid the individual in acquiring the skills and personal growth necessary to help others in self-exploration and positive changes. The student will learn a process of helping which relies heavily on empathy, honesty, and caring in relationships to effect positive change in others. This course will benefit those in the helping professions as well as any individual seeking to be more helpful in relationships with others.

APSY 151 HUMAN RELATIONSHIPS 3/3/0

This course integrates psychological theory with human experiences and presents a positive view of the human connections that make us whole. Students will study the many ways in which people relate to each other. Eight basic dimensions of relatedness and how they impact our lives over the life cycle will be the focus of the course. The course will describe the environments we create in which relationships flourish and the spaces between us that give us meaning.

APSY 160 CAREER AND VOCATIONAL EXPLORATION 3/3/0

Focuses on the process of occupational choice through study of occupational trends and survey of specific occupations. Working with information about themselves obtained through standardized tests and other measures and selected occupational information, students develop a tentative vocational plan. Designed for students who are undecided about their majors or interested in changing careers.

APSY 161A LEARNING AND STUDY TECHNIQUES 1.5/1.5/0

Applies principles derived from cognitive/behavioral psychology to facilitate development of organizational and information-processing skills. Course content includes strategies for information acquisition, retention, and retrieval. Practical applications focus on decision-making, goal-setting, motivational techniques, time management, and didactic learning skills. Principles and techniques are applicable in educational and professional settings.

APSY 161B ADVANCED LEARNING, STUDY, AND TESTING TECHNIQUES 1.5/1.5/0

Recommended Preparation: APSY 161A

Reviews and expands Learning and Study Techniques. Principles of learning theory, information acquisition, retention, and retrieval are reviewed. Emphasizes test-taking strategies and test preparation related to objective and subjective tests. Principles and techniques are relevant in educational and professional environments.

APSY 163 DEVELOPING HABITS OF SUCCESSFUL STUDENTS 1/1/0

Designed to identify behavior strategies applicable to personal awareness. The course will deal with techniques and models for effective problem-solving, effective communication, values clarification, and stress management. The behavioral and cognitive theories taught will be applicable for persons who want to understand positive techniques for dealing with people and assuming responsibility for themselves.

APSY 164 TOPICS IN APPLIED PSYCHOLOGY .5-4/.5-4/.5-9

Course emphasizes the application of information derived from psychology such as cognitive styles and learning and motivation theories to assist the student in successfully attaining his or her academic and vocational goals. A variety of topics such as goal-setting, anti-procrastination techniques, overcoming test anxiety, and time management will be offered. No topic may be repeated.

APSY 166 THEORETICAL AND APPLIED LEADERSHIP 1/1/1

Students will learn and apply basic theoretical and practical applications of leadership focused on contemporary issues such as governance, organization structure, and planning. Includes a variety of subtopics, such as decision making, team building, parliamentary procedure, time management, diversity, conflict resolution, budgeting, and ethics.

APSY 365 TESTING: APTITUDE, PERSONALITY, INTEREST, AND VALUES 1/1/0

Employs a variety of instruments to assess students' interests, aptitudes, values, and personality. Activities are centered on test-taking, interpreting, evaluating, and matching test results to a career choice, an academic major, or personal growth.

Arabic

ARAB 1 ELEMENTARY ARABIC 5/5/0

Corequisite: ARAB 999

Recommended Preparation: College-level reading ability

Designed to develop the fundamentals of communicative competence in daily spoken Arabic. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years high school Arabic.
Course Prefix | Course Number | Course Title | No. of Units | Lecture Hours Per Week | Lab Hours Per Week
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ACCT 220 | 3/3/0 | Introduction to Financial Planning

**Architecture**

**ARCH 110**
**INTRODUCTION TO ARCHITECTURE**
Introduction to the professional field of architecture and related fields such as landscape architecture, engineering, construction, and city planning. Presentations by professionals introduce students to options, requirements, and job possibilities in various related fields.

**ARCH 112**
**HISTORY OF ARCHITECTURE**
The study of the architecture and environmental achievements of man from the earliest times to the present. Presenting the important buildings, cities, and civilizations of mankind.

**ARCH 122**
**ARCHITECTURAL PRACTICE**
An introductory course covering the profession of architecture and the construction industry including professional relations, office procedures, and legal aspects.

**ARCH 124A**
**ARCHITECTURAL DRAWING I**
Principles and techniques of architectural drawing designed primarily for those who plan to enter the field of architecture or a related field such as construction, landscape architecture, city and regional planning, and/or interior design.

**ARCH 124B**
**ARCHITECTURAL DRAWING II**
Recommended Preparation: ARCH 124A
Draft and organize a set of working drawings for a single-family house including building code requirements, materials, and principles of wood-frame construction.

**ARCH 124C**
**ARCHITECTURAL DRAWING III**
Recommended Preparation: ARCH 124B
Draft and organize an advanced set of working drawings for a steel and concrete commercial building.

**ARCH 126**
**MATERIALS AND METHODS OF CONSTRUCTION**
Studying various building materials, their use and application in the structural makeup of buildings.

**ARCH 132**
**RESIDENTIAL PLANNING, PRINCIPLES AND DESIGN**
Recommended Preparation: ARCH 124A
Design a single-family house. Go through design process that considers proper site relationship, plan function, form, structure, and materials.

**ARCH 134**
**BASIC ARCHITECTURAL DESIGN I**
Recommended Preparation: ARCH 124A, which may be taken concurrently
Fundamentals of design function; form determinants; the nature, elements, and process of creative environmental design using 2D and 3D studies of space, form, color, and structure.

**ARCH 136**
**BASIC ARCHITECTURAL DESIGN II**
Recommended Preparation: ARCH 134
Learn to design quality form and space for living and/or working. Through the design process consider site, function, form, structure, color, and materials, as well as social, psychological, and ergonomic factors.

**ARCH 142**
**DESCRIPTIVE DRAWING AND PERSPECTIVE**
Recommended Preparation: ARCH 124A
Construct 3D drawings, including obliques, isometrics, 1-pt. and 2-pt. perspectives. Construct basic shadows and shade.

**ARCH 144**
**ARCHITECTURAL PRESENTATION AND RENDERING**
Recommended Preparation: ARCH 124A and 142
Delineate 2D and 3D architectural drawings for presentation. Render three drawings with color, shade, shadows, people, and trees.

**ARCH 150**
**INTRODUCTION TO COMPUTER-AIDED DRAFTING**
Recommended Preparation: ARCH 124A or DR 100
An introductory course in the operation and application of computer-aided drafting (CAD) systems, used to create, modify, store, and plot technical drawings. Also listed as DR 150. Credit to be given in either area, not both.

**ARCH 151**
**COMPUTER-AIDED DRAFTING**
Recommended Preparation: ARCH or DR 150
An intermediate-level course in the operation and application of computer-aided drafting systems, used to create, edit, save, and plot technical drawings. Also listed as DR 151. Credit given in either area, not both.

**ARCH 152**
**ADVANCED COMPUTER-AIDED DRAFTING**
Recommended Preparation: ARCH or DR 150 or 151
A course in advanced computer-aided design and drafting. Emphasis is on advanced CAD knowledge and skills in the completion of technical drawings which reflect industry standards. Also listed as DR 152. Credit to be given in either area, not both.

**ARCH 161**
**BLUEPRINT PLANS AND SPECIFICATION READING**
Blueprint and specification reading as applied to California state codes. Includes residential, commercial, and hospital construction. (Formerly CON 130)

**ARCH 162**
**CONSTRUCTION ESTIMATING**
Includes the following aspects of the construction trade: bid preparations, material quantity and analysis, labor and material pricing and quantities summations, subcontract summations, subcontract bids, bid corrections, bidding practices, and final-bid form compilation and submittal. (Formerly CON 140)

**ARCH 163**
**UNIFORM BUILDING CODE INSPECTION**
Pursue minimum preparation and upgrading–for inspectors seeking certification, construction managers, and architect’s field observers. Examine federal, state, or local codes affecting construction, grading, and performance standards. Evaluate code compliance on-site with emphasis on interpretations. (Formerly CON 135)
ARCH 164 3/3/0
COMBINATION RESIDENTIAL DWELLING INSPECTION

Recommended Preparation: ARCH 163
Prepares students to take the International Conference of Building Officials (ICBO) examination to become Certified building inspectors. Particular emphasis given to those sections in the Uniform Codes which deal with inspection and enforcement of the Plumbing, Mechanical and Electrical Codes as they relate to residential and framing. (Formerly CON 151)

ARCH 165 3/3/0
ELECTRICAL CODE INSPECTION

A comprehensive study and review of the National Electrical Code and local authorities. Also covers regulations for inspection of residential and commercial units. (Formerly CON 153)

ARCH 166 3/3/0
CONTRACTORS' LICENSE LAW

Stresses legal factors in construction inspection, lien laws, codes, and typical qualifying or license examinations. Legal responsibilities and safety factors will be covered as important aspects of the industry. (Formerly CON 155)

ARCH 189 .5-4/.5-4/.5-9
SPECIAL TOPICS

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

ARCH 211 3/3/0
CONCRETE INSPECTION

Presents technical knowledge needed by inspectors, code enforcement personnel, contractors and architects. Covers detailed concrete design, placement, mixing and testing. (Formerly CON 210)

ARCH 212 3/3/0
PLUMBING CODES: DRAINS, WASTE, VENTS, WATER, AND GAS

Examine responsibilities of the plumbing inspector. Review rules and regulations defining owner, builder and architect's responsibilities. Study mechanics of installation and inspection of water, waste and venting systems. (Formerly CON 212A)

ARCH 213 3/3/0
MECHANICAL CODE: HEATING, AC, REFRIGERATION, AND DUCTWORK

Examine the mechanical code as it affects responsibilities of inspector, contractor, worker, architect and owner. Examine design, sizing, installation and inspection of heating, ventilation and air conditioning (HVAC) systems. (Formerly CON 212B)

ARCH 214 3/3/0
CODE ENFORCEMENT AND DISABLED ACCESS

Designed to acquaint students with the organizational structure and responsibilities relating to case documentation, preparation for administrative or court duties, and other procedures of code enforcement. Special emphasis given to disabled-access compliance. (Formerly CON 214)

ARCH 289 .5-4/.5-4/.5-9
SPECIAL TOPICS

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

ART 4 3/3/0
FUNDAMENTALS OF ART

Emphasizing fundamental art ideas, modes, devices, problems of organization and structure terminology, media, and the relationship of art to society.

ART 10 3/3/3
BEGINNING CERAMICS (HANDBUILDING)

An introduction to clay, glaze, and handbuilding techniques with emphasis on craftsmanship and good design. A combination of ART 10, 11, 12, or 13 may be taken a maximum of four times. R A 3

ART 11 3/3/3
BEGINNING CERAMICS-INTRODUCTION TO WHEEL TECHNIQUES

Recommended Preparation: ART 10
An introduction to beginning wheel techniques with emphasis on traditional shapes and forms. A combination of ART 10, 11, 12 or 13 may be taken a maximum of four times. R A 3

ART 12 3/3/3
INTERMEDIATE CERAMICS-INTERMEDIATE WHEEL

Recommended Preparation: ART 11
A continuation of basic throwing techniques with emphasis on specific shapes and forms utilitarian and decorative. A combination of ART 10, 11, 12 or 13 may be taken a maximum of four times. R A 3

ART 20 3/3/0
ART APPRECIATION

Designed to develop an understanding of historical and contemporary art forms, including examples of painting, sculpture, and architecture. Attendance at scheduled field trips is required. Designed to apply toward humanities general education requirement for all students.

ART 21 3/3/0
WOMEN AND ART

Women and Art will present critiques of traditional art historical discourse. Students will critically analyze texts and visual works of art (including film), closely examining the language and images which have simultaneously limited women's role as artist and have produced visual stereotypes.

ART 22 3/3/0
SURVEY OF ASIAN ART (INDIA, CHINA, JAPAN, AND KOREA)

Designed as a survey of artistic traditions found in Asia including India, Korea, China, and Japan. The arts of painting, sculpture, and architecture will be discussed as artistic expressions as well as visual manifestations of Eastern religion.

ART 23 3/3/0
AFRICAN AND OCEANIC ART

Designed to develop an understanding and appreciation of the indigenous arts of Africa and the South Pacific. This course will consider the painting, sculpture, and architectural traditions of preliterate societies emphasizing their culture as well as artistic significance. Recommended for both majors and non-majors.
ART 24  
**INDIGENOUS ARTS OF THE AMERICAS**  
Survey of the indigenous artistic traditions of North, Central, and South America extending from the United States and Mexico to Peru from circa 1000 BC to the Conquest. The course will address historical and contemporary cultures of the Western hemisphere (Native American and pre-Columbian) from a historical ethnographic context, examining the formal elements of painting, sculpture, architecture, ceramics, and textiles in the context of native socio-political systems and religious beliefs.

ART 25  
**SURVEY OF ART HISTORY: ANCIENT WORLDS TO GOTHIC**  
Emphasizing the historical development of painting, sculpture, and architecture including philosophical and cultural perspectives. Required of art majors but open to all students. Applies toward Humanities requirement for all students.

ART 26  
**SURVEY OF ART HISTORY: RENAISSANCE TO MODERN**  
Emphasizing the historical development of painting, sculpture, and architecture including philosophical and cultural perspectives. Required of art majors but open to all students. Applies toward Humanities requirement for all students.

ART 27  
**HISTORY OF MODERN ART**  
Emphasizing the historical development of painting, sculpture, and architecture including philosophical and cultural perspectives in the late 19th and 20th centuries. The course includes an in-depth study of Expressionism, Surrealism, Cubism, Abstractionism, Op, Pop, and Realism. Recommended for both majors and non-majors.

ART 28  
**INTRODUCTION TO WORLD ART**  
Survey of the visual arts of the world through the millennia, including the regions and cultures of Europe, Asia, the Americas, and Africa. Major emphasis is given to the development of the world’s most significant painting, sculpture, and architecture within their respective social, political and religious contexts. The course examines the roles of artist and patron, and the relationship between the art object and its intended function. (Formerly ART 27)

ART 40  
**TWO-DIMENSIONAL DESIGN**  
A basic course in the application and appreciation of the principles of organization and art elements as they relate to two-dimensional design. Selected problems in using line, shape, color, value, and texture. Generally required for all art majors.

ART 41  
**THREE-DIMENSIONAL DESIGN**  
Recommended Preparation: ART 40  
A basic course in the application and appreciation of the art elements and principles related to problems in three-dimensional design.

ART 50  
**BEGINNING PAINTING**  
Recommended Preparation: ART 40, 80  
Emphasizing painting as a creative process while developing the elementary skills of painting as a means of self-expression. Includes oil and acrylic media with fundamentals of composition, color theory and craftsmanship as applied to painting. A combination of ART 50, 51, 52 may be taken a maximum of four times.  R A 3

ART 51  
**INTERMEDIATE PAINTING**  
Recommended Preparation: ART 50  
Emphasizing painting as a creative process while developing more advanced skills in oil, acrylic and mixed/ collaged media. A combination of ART 50, 51, 52 may be taken a maximum of four times.  R A 3

ART 52  
**ADVANCED PAINTING**  
Recommended Preparation: ART 51  
Explores representational and non-representational subject matter in a variety of media including acrylic and oil. A combination of ART 50, 51, 52 may be taken a maximum of four times.  R A 3

ART 53  
**BEGINNING LIFE PAINTING—HUMAN FIGURE**  
Recommended Preparation: ART 51  
Emphasizing painting as a creative process while further developing basic skills in representational and interpretive direction using the live model. Media includes oil and acrylic. A combination of ART 53 or 54 may be taken a maximum of four times.  R A 3

ART 54  
**ADVANCED LIFE PAINTING—HUMAN FIGURE**  
Recommended Preparation: ART 53  
Emphasizes the basic knowledge of anatomy and painting skills with emphasis on composition in the representation as well as the interpretative study of the live model. The media includes oil and acrylic. A combination of ART 53 or 54 may be taken a maximum of four times.  R A 3

ART 57  
**BEGINNING WATERCOLOR**  
Recommended Preparation: ART 40, 80  
Involves the basic use of transparent media. Technique includes wet into wet, dry brush, glazing, and direct approaches. Contemporary trends will be employed through the study of traditional means. Emphasis will be placed upon creative application and composition. A student can take a maximum of 12 units in combination from ART 57, 58, 59.  R A 3

ART 58  
**INTERMEDIATE WATERCOLOR**  
Recommended Preparation: ART 57  
Further implements watercolor techniques and explores more advanced problems in color, light, and composition. In addition, this course will offer experience in the mixing of other media with transparent watercolor. A student can take a maximum of 12 units in combination from ART 57, 58 and 59.  R A 3

ART 59  
**ADVANCED WATERCOLOR**  
Recommended Preparation: ART 58  
A course emphasizing advanced techniques of transparent media, including use of collage. A combination of ART 57, 58, 59 may be taken a maximum of four times.  R A 3

ART 60  
**BEGINNING INTAGLIO (ETCHING) AND RELIEF**  
Recommended Preparation: ART 80  
A course designed to introduce students to a variety of approaches involving relief and intaglio areas of printmaking. Basic processes of etching, collograph, linoleum/woodcut, and monotypes will be stressed. Both traditional and experimental approaches important to the development of a print will be used through the course of study. Students will be expected to develop a print from an original idea, through the various technical levels of each process, to the actual printing of an edition. A combination of ART 60, 61, and 62 may be taken a maximum of four times.  R A 3

ART 61  
**INTERMEDIATE INTAGLIO (ETCHING) AND RELIEF**  
Recommended Preparation: ART 60  
A course with emphasis on advanced skills in the process of relief and intaglio areas of printmaking. Edition printing, advanced technical skills, and continued development of personal imagery and unique style will be stressed. A combination of ART 60, 61, 62 may be taken a maximum of four times.  R A 3
ART 62  ADVANCED INTAGLIO (ETCHING) AND RELIEF
Recommended Preparation: ART 60, 61
A course with emphasis on advanced skills in the process of relief and intaglio areas of printmaking. Edition printing (color), advanced technical skills of multiple plate printing, color printing, and continued development of personal imagery and unique style. Students will incorporate basic techniques from Beginning and Intermediate Intaglio (Etching) and Relief to Advanced Intaglio and Relief skills of multicolor, multiple registration, and printing techniques. A combination of ART 60, 61, 62 may be taken a maximum of four times. R A 3

ART 70  FUNDAMENTALS OF SCULPTURE
A survey of basic sculpture processes to include both additive and subtractive sculpture procedures. Lectures and demonstrations involving the classic and contemporary use of sculpture materials such as clay, plaster, stone, and metal will be covered. Students will research, design, and develop representational and abstract sculptural forms. Course emphasis will be placed on the effective use of design, materials and sculptural procedures, as well as the safe and proper use of hand and power tools. R A 3

ART 71  ADDITIVE SCULPTURE
Recommended Preparation: ART 70
An in-depth investigation of the additive processes in sculpture, including clay and plaster. A combination of ART 70, 71, or 72 may be taken a maximum of four times. R A 3

ART 72  SUBTRACTIVE SCULPTURE
Recommended Preparation: ART 70
An in-depth investigation of the subtractive process in sculpture, including plaster, wood and stone. A combination of ART 70, 71, or 72 may be taken a maximum of four times. R A 3

ART 78  BEGINNING LIFE SCULPTURE
A course in which students sculpt from the live model in clay with emphasis placed on posture, composition, scale, proportion as related to representational forms. A combination of ART 78 or 79 may be taken a maximum of four times. R A 3

ART 79  ADVANCED LIFE SCULPTURE
Recommended Preparation: ART 78
A course in which students expand their ability to sculpt from the live model to include larger scale and the materials of wood and/or stone. A combination of ART 78 or 79 may be taken a maximum of four times. R A 3

ART 80  BEGINNING DRAWING
Emphasizes the development of perceptual and technical skills in drawing. This course will include line, shape, proportion, value, and composition in the representation of still life and other subject matter using dry media. A combination of ART 80, 81, and 82 may be taken a maximum of four times. R A 3

ART 81  INTERMEDIATE DRAWING
Recommended Preparation: ART 80
Emphasizes the process of drawing as a form of creative expression. An exploratory approach to technical and conceptual problems in drawing is encouraged through the use of dry and fluid media. A combination of ART 80, 81, and 82 may be taken a maximum of four times. R A 3

ART 82  ADVANCED DRAWING
Recommended Preparation: ART 81
Further develops the concepts and processes introduced in ART 80 and 81, emphasizing the development of the individual student's artistic ability. A combination of ART 80, 81, and 82 may be taken a maximum of four times. R A 3

ART 85  BEGINNING LIFE DRAWING
Recommended Preparation: ART 80
A course with emphasis on working from the live model in either area, not both.

ART 86  INTERMEDIATE LIFE DRAWING
Recommended Preparation: ART 85
Depicts anatomy by drawing the human figure. Designed to develop an understanding of the human anatomy and proportion as well as the ability to draw the figure in various attitudes and movements using dry and fluid media. A combination of ART 85, 86, and 87 may be taken a maximum of four times. R A 3

ART 87  ADVANCED LIFE DRAWING
Recommended Preparation: ART 86
Emphasizes a thorough understanding of anatomy for the artist. Uses the human figure as the basis of both representational and more abstract and expressionistic drawing. A combination of ART 85, 86, and 87 may be taken a maximum of four times. R A 3

ART 100  ART GALLERY/DISPLAY AND EXHIBITION
Designed to introduce students to a variety of aspects in working and running and art gallery. Students will participate in the planning of shows along with the practical experience of preparing and installing shows in the College Art Gallery. In addition, students will visit local galleries and museums to further enhance their ideas of the functions of an art gallery. R E 3

ART 120  TOUR-ART HISTORY/APPRECIATION
Recommended Preparation: ART 40
A studio course emphasizing basic traditional and contemporary concepts, processes, and techniques in the making of jewelry, including soldering, stone setting, and lost wax casting. A student can take a maximum of 12 units in combination from ART 133 or 134. R A 3

ART 133  BEGINNING JEWELRY
Recommended Preparation: ART 40
A studio course emphasizing advanced processes and techniques of jewelry making, including forging, chasing and repoussé. A student can take a maximum of 12 units in combination from ART 133 or 134. R A 3

ART 134  ADVANCED JEWELRY
Recommended Preparation: ART 133
A studio course emphasizing advanced processes and techniques of jewelry making, including forging, chasing and repoussé. A student can take a maximum of 12 units in combination from ART 133 or 134. R A 3

ART 140  GRAPHIC DESIGN A
Introduction to fundamentals of design concepts that explore organization of visual elements for graphic communication. Studio work will include traditional and computer-generated assignments in layout and typography, exploration in the areas of color overlay, and halftones. Designed to convey current concepts and techniques in the Graphic Design field. Also listed as GD 141. Credit to be given in either area, not both.

ART 141  GRAPHIC RENDERING TECHNIQUES
The exploration of two-dimensional media for graphics; pencil, Ink, felt-tip pens and airbrush. Problems encourage exploration and control in a variety of design applications. A recognition and choice of techniques in translating ideas into visual experience. Also listed as GD 141. Credit to be given in either area, not both.
ART 120
PACKAGING DESIGN

ART 144
HANDLETTERING AND TYPOGRAPHY

Basic principles of various kinds of hand-lettering, illumination and typography, discussing and practicing type styles and characteristics, construction and development of type styles, familiarization with spacing techniques, and relationships and knowledge of tools, including computers and terminology. Also listed as GD 144. Credit to be given in either area, not both.

ART 145
GRAPHIC ILLUSTRATION

Learn to develop illustration for advertising and graphics and editorial use. Design and apply illustrations with consideration for reproduction requirements. Illustrations will be done in line art, black and white, limited, and full color in all mediums. Also listed as GD 145. Credit to be given in either area, not both.

ART 164
CALLIGRAPHY

Introduction to the fundamentals of the art of "beautiful writing" (calligraphy). Studio work will include assignments in: Chancery Cursive Unical, Roman, Black and Gothic, Humanist Hand, as well as others. Also listed as GD 146. Credit to be given in either area, not both. R E 3

ART 170
INTRODUCTION TO SCREEN PRINTING

Principles, basic methods and techniques of preparing handout and photographic stencils, printing techniques, simple color separation, and equipment and material handling. Care, use and safety precautions in operating and cleaning the silkscreen unit. Also listed as GC 170. Credit to be given in either area, not both. R E 3

ART 175
METAL CASTING

Recommended Preparation: ART 70

A specialized course in foundry procedures. Activities will include direct and indirect techniques of developing wax models to be used in the lost wax metal casting process. Students will design unique sculptural forms which will be cast in metal using either plaster investment or ceramic shell molds. Course emphasis will be placed on the safe and proper use of hand and power tools and upon a variety of foundry practices such as: mold making, spruce and gate systems, mold dewaxing, metal pouring procedures, metal finishing, and coloring techniques. R E 3

ART 189
SPECIAL TOPICS

Recommended Preparation: ART 140

The further study of design concepts to explore organization of visual elements to graphic communication. Studio work will include layout and production of designed formats (magazine ads, logo, T.V., story board, newspaper) and conceptualization techniques in the graphic-design field, as well as portfolio preparation. Also listed as GD 240. Credit to be given in either area, not both.

ART 200
GRAPHIC DESIGN B

Recommended Preparation: ART 140

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

ASTR 20
GENERAL ASTRONOMY

An introductory astronomy course to cover the development of astronomy from ancient times to modern times. Includes the study of the solar system, the stars and stellar systems, the Milky Way Galaxy, other galaxies and galaxy-like objects, and the expanding universe and theories of its origin. Field trips may be required to fulfill the objectives of the course.

ASTR 21
THE SOLAR SYSTEM

Why do we explore? Is life unique to Earth? This course will be a detailed study of the origin and evolution of our solar system from the beginning to the present, as deduced from sampling, remote sensing, exploration, imagery, and theory. We will discuss and compare composition, tectonics, volcanism, surface processes, atmospheric and thermal evolution of Earth, the moon, terrestrial and Jovian planets and their satellites. Additional topics will include meteorite and comet impacts, and the possible existence of life elsewhere in the solar system. Field trips may be required to fulfill the objectives of this course. Also listed as GEOL 21. Credit to be given in either area, not both.

ASTR 25
OBSERVATIONAL ASTRONOMY

Recommended Preparation: ASTR 20

An introductory observational astronomy course to cover various observational targets, tools, and methods, through actual observation and experimentation. Students will use college-owned telescopes to observe the sun, moon, planets, available comets, multiple stars, variable stars, and deepsky objects including nebulae and galaxies. Additional laboratory and/or observation hours to be arranged. Field trips may be required to fulfill the course objectives.

ASTR 45
FROM BIG BANG TO BLACK HOLES

Recommended Preparation: ASTR 20

An introductory, non-mathematical course in cosmology and relativity. Study of the origin, present state and ultimate fate of the universe as described by various modern theories and observations. Also included will be the study of violent sources of energy such as quasars and black holes and their role in the evolving universe.

ASTR 130
INTRODUCTION TO ASTROPHOTOGRAPHY

Recommended Preparation: ASTR 20

A project-oriented class providing experience in astronomical observations enhanced by photographic techniques. Students will learn to take astronomical photographs by using a variety of techniques and instruments. Also included will be darkroom techniques for processing and printing. Field trips may be required to fulfill the objectives of this class. (Formerly ASTR 30.)

ASTR 189
SPECIAL TOPICS

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
AUTOMOTIVE FUNDAMENTALS
Introduction to the principles of operation of modern automobile systems and a practical introduction to automotive tools and diagnostic equipment. Demonstrated lectures and some practical experience in the laboratory. Structured for the non-technical student.

AUTO 101
AUTOMOTIVE ELECTRICAL SYSTEMS
Recommended Preparation: AUTO 100
Operating principles, troubleshooting techniques, and repair procedures of electrical supply systems and battery-starter systems. Demonstrated lectures and practical experience in the laboratory on batteries, starter systems, alternator-generator charging systems, and accessory and lighting systems. Scan tool and digital multimeter techniques will be emphasized. R E 3

AUTO 102
AUTOMOTIVE TUNE-UP/IGNITION SYSTEMS
Recommended Preparation: AUTO 100
Operating principles, troubleshooting techniques, and repair procedures for all types of ignition systems. Demonstrated lectures and practical experience in the laboratory using modern testing equipment, oscilloscopes, and other diagnostic equipment on "live" vehicles. Outside assignments are required. Combination of AUTO 102 or 103 and AUTO 109 satisfies California Smog License Clean Air Car Course (CACC) requirements. R E 3

AUTO 103
AUTOMOTIVE TUNE-UP/FUEL AND EMISSION SYSTEMS
Recommended Preparation: AUTO 100
Operating principles, design, troubleshooting techniques, and repair procedures of automotive fuel and emission-control systems. Demonstrated lectures and practical experience in the laboratory on shop components and "live" vehicles. Practical experience in modern computer-controlled carburetion systems and electronic fuel-injection systems is stressed. Combination of AUTO 102 or 103 and AUTO 109 satisfies California Smog License Clean Air Car Course (CACC) requirements. R E 3

AUTO 104A
AUTOMOTIVE ENGINES
Recommended Preparation: AUTO 100
Practical experience in the rebuilding, overhauling, and machining of engine components of the internal-combustion engine. It is recommended that the student have access to an engine for overhaul purposes. First part of a two-semester program covers block boring and honing techniques as well as bearing installation. Piston and ring selection procedures will be covered. The basic block will be assembled. R E 3

AUTO 104B
AUTOMOTIVE ENGINES
Prerequisite: AUTO 104A
Recommended Preparation: AUTO 100
Practical skill experience in rebuilding, overhauling and machining of engine components of the internal-combustion engine. A continuation of AUTO 104A. Covers cylinder head overhaul, camshaft selection, and cylinder head assembly, as well as installation of complete engines. R E 3

AUTO 105
AUTOMOTIVE POWER TRAIN
Recommended Preparation: AUTO 100
Operating principles and overhaul and repair procedures of automotive power-trains, including clutches, multiple speed four-wheel drive transmissions, overdrives, drive line, differentials, and rear axles. Demonstrated lectures and practical experience in the laboratory on power-train components. R E 3

AUTO 106A
AUTOMOTIVE SUSPENSION AND ALIGNMENT
Recommended Preparation: AUTO 100
Advanced course emphasizing complete suspension system overhaul, suspension and chassis modification, as well as complete four-wheel alignment using the latest computerized equipment available. R E 3

AUTO 106B
AUTOMOTIVE BRAKE SYSTEMS
Recommended Preparation: AUTO 106A
Operating principles, troubleshooting techniques, and repair of automotive disc and drum brake systems. Latest ABS system theory and operation with scan tool analysis will be covered. Complete component overhaul, machining methods, and selection of materials for safe brake operation are also covered. Prepares a technician for state brake inspector’s license. R E 3

AUTO 107
AUTOMATIC TRANSMISSION
Recommended Preparation: AUTO 100
Operating principles, design, overhaul, adjustment, and servicing of FWD and RWD automatic transmissions. Troubleshooting techniques utilizing scan tools for computer-controlled transmission diagnosis. Demonstrated lectures and laboratory work on automatic transmissions. R E 3

AUTO 108
AUTOMOTIVE AIR CONDITIONING
Recommended Preparation: AUTO 100
Covers the theory of operation for domestic and imported vehicle air conditioning systems. Emphasis is placed on diagnosis and troubleshooting. Design and servicing techniques of each manufacturer will be included. Students eligible to receive refrigerant R-12 and R-134A certification. R E 3

AUTO 109
CALIFORNIA STATE SMOG LICENSE COURSE
Recommended Preparation: Completion of or concurrent enrollment in AUTO 102 or 103
State BAR approved course covering Modules 1-8 of the "Clean Air Car Course." Upon successful completion of courses technician will be eligible for state "inspection and maintenance" license. Covers all aspects of pollution controls and testing procedures. Combination of AUTO 102 or 103 and 109 satisfies California Smog License Clean Air Car Course (CACC) requirements. R E 1

AUTO 189
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 1

AUTO 204
HIGH PERFORMANCE ENGINE BLUEPRINTING
Recommended Preparation: Completion of or concurrent enrollment in AUTO 104A or 104B
A course designed to incorporate advanced measuring techniques, machining skills, and advanced theory in building a high-performance engine. Advanced cylinder honing, crankshaft balancing, block machining, as well as cylinder airflow studies will be covered using the latest air-flow bench techniques. R E 3

AUTO 220
ALTERNATIVE PROPULSION SYSTEMS
Recommended Preparation: AUTO 101
Alternative fuels and the electric-vehicle industry with emphasis on the skills necessary to convert existing automotive platforms to electric power, and repair techniques used to maintain electric vehicles. R E 3
### Aviation

**AVIA 110 BASIC AVIATION SCIENCE**  
4/4/0  
Covers basic aerodynamics, flight data, meteorology, navigation, radio communication, Federal Aviation Administration regulations, and general service and operation of aircraft. Field trips may be required.

**AVIA 151 COMMERCIAL AND INSTRUMENT GROUND SCHOOL**  
4/4/0  
Recommended Preparation: AVIA 110  
Covers the Federal Aviation Administration regulations for the instrument and commercial flight ratings. The aeronautical knowledge in preparation for the FAA exams includes lectures on regulations, meteorology, navigation, flight performance, flight instruments, and flight planning, and required publications review.

### Biology

**BIO 1A ANIMAL DIVERSITY AND ECOLOGY**  
5/3/6  
Recommended Preparation: High school biology, BIO 20, or the equivalent with a grade of "C" or better.  
The units covered are biochemistry, cellular organization and function, and cellular energetics. Also included is a detailed survey of the major animal phyla, within an evolutionary framework. Emphasis will be placed on the classification and naming of organisms, the distinctive anatomical and physiological adaptations of the different animal groups, behavior, and the principles of ecology. Field trips may be required to fulfill the objectives of this course.

**BIO 1B PLANT DIVERSITY AND GENETICS**  
5/3/6  
Recommended Preparation: BIO 1A  
Introduction to the principles of genetics and a survey of the plant kingdom. Included are discussions of cellular reproduction, chromosome structure, and laws of inheritance. Study will include structure, reproduction, physiology, evolution, and natural history of the major plant groups. Field trips may be required to fulfill the objectives of the course.

**BIO 1C BIOCHEMISTRY AND MOLECULAR BIOLOGY**  
5/3/6  
Recommended Preparation: BIO 1B; completion of or concurrent enrollment in CHEM 12A  
An introduction to biochemistry and molecular biology. Included are discussions of biological macromolecules, energy production, metabolic pathways, genetic information storage and retrieval, transcription, translation, and gene regulation. Laboratory activities will include use of spectroscopy, electrophoresis, centrifugation, and electron microscopy. This course is designed for biology majors and health pre-professionals. Field trips may be required to fulfill the objectives of the course.

**BIO 11 HUMAN ANATOMY**  
4/2/6  
Recommended Preparation: BIO 20  
A course dealing with basic human anatomy. The course will include a synopsis of fundamental concepts of human embryology and an introduction to histology. The course is heavily based on human material and the dissection of a cat. Field trips may be required to fulfill the objectives of this course. It is designed for biology majors and pre-professionals.

**BIO 12 HUMAN PHYSIOLOGY**  
4/3/3  
Recommended Preparation: BIO 11 and CHEM 108  
A course in human physiology that will center on the functioning and integration of the major organ systems. Emphasis will be placed on the cardiovascular, excretory, respiratory, digestive, and nervous systems and their interactions. Extensive use of physiographs will be included in the laboratory sessions. Field trips may be required to fulfill the objectives of this course. It is designed for biology majors and health pre-professionals.

**BIO 15 GENERAL MICROBIOLOGY**  
5/3/6  
Recommended Preparation: College-level biology course; CHEM 108  
An examination of the fundamental biological concepts as they apply to viruses, bacteria, fungi, and protozoa. Emphasis is placed on the prokaryotic cell. Theoretical as well as practical applications are discussed in such topics as bacterial morphology, metabolism, genetics, chemotherapy, and antibiotics. Also included are resistance and immunity, health, and disease. Laboratory work will relate to topics covered in lecture.

**BIO 18 INTRODUCTION TO ECOLOGY**  
4/3/3  
Examines the relationship among organisms (including humans) and their environment, with an emphasis upon understanding the casual mechanisms underlying each phenomenon. Learning activities will include formal laboratory investigations, examination of live animals and plants, and short field trips to surrounding areas. Also listed as ENV 18. Credit given in either area, but not both.

**BIO 19 MARINE BIOLOGY**  
4/3/3  
Recommended Preparation: Previous college-level biology course  
Study of the description, distribution, and natural history of marine organisms. Marine life of Southern California will be studied with an emphasis on ecology and adaptations. Field trips may be required to fulfill the objectives of this course. Also listed as ENV 19. Credit to be given in either area, but not both.

**BIO 20 INTRODUCTION TO BIOLOGY**  
4/3/3  
Integrated study of the basic principles of biology, with emphasis on the principles of structure and function, genetics, development, evolution, and ecology. Discussion of the philosophy, concepts and implications of modern biology will be included. Field trips will supplement laboratory work.

**BIO 24 NATURAL HISTORY OF CALIFORNIA**  
3/2/3  
Through lecture and lab, acquaints the non-biology major with the basic physical and biological aspects of the coastal, valley, mountain, and desert environments of California. Field trips may be required to fulfill the objectives of this course. Also listed as ENV 24. Credit to be given in either area, but not both.

**BIO 25 ENVIRONMENTAL HAZARDS TO HEALTH**  
3/3/0  
Provides an overview of the relationship between environmental pollutants and human health. A survey of legislative and treaty safeguards designed to protect human health within local, state, national, and international areas will also be included. Also listed as ENV 25. Credit to be given in either area, but not both.
BIO 40  
MODERN THEORIES OF EVOLUTION  3/3/0

An introduction to the theory of evolution. Emphasis will be placed on both the theory of evolution and the evidences of evolution. A non-majors course for students with little background in the sciences. Field trips may be required to fulfill the objectives of this course.

BIO 41  
HUMAN GENETICS  2/2/0

Recommended Preparation: A previous course in biology

A survey of human genetics with references to normal and abnormal genetic development. Acquaints the non-biology major with the basic concepts of human heredity and development.

BIO 43  
ANIMAL BEHAVIOR  3/3/0

Recommended Preparation: BIO 20

A basic introductory course on human diseases and disease processes. Relates disease and the disease process to the human anatomical and human physiological systems. This course does not meet the requirements of anatomy, physiology, or pathophysiology for nursing students.

BIO 44  
BIOLOGICAL ASPECTS OF HUMAN SEXUALITY  3/3/0

Recommended Preparation: BIO 20

A thorough examination of the fundamentals of the development and practice of sexuality in the human being. This course is organized into two major units: 1) biochemical; 2) developmental sexual differentiation from the point of fertilization through the age of 18 months.

BIO 112  
PATHOPHYSIOLOGY  3/3/0

Recommended Preparation: BIO 11, 12, and CHEM 2B

A study of the pathophysiology of common disorders of the human nervous, muscular, skeletal, endocrine, cardiovascular, respiratory, excretory, digestive, and reproductive systems. Special emphasis will be placed on the relationship between the normal physiology and the physiological basis of the disease process with special references to clinical correlations. The course is designed for nursing/nurse practitioner majors.

BIO 133  
HUMAN ANATOMY AND PHYSIOLOGY  4/3/3

A basic course to show the interrelationships between human anatomical and human physiological systems. The laboratory will include dissection. This course does not meet the requirements of either anatomy or physiology for nursing students.

BIO 173, A, B, C  
BIOLOGY FIELD STUDIES: NATIONAL PARKS OF THE WEST  4/2/4

A study of the plants and animals and natural history of selected national parks and monuments of the western states. This course is comprised of an 11-day field trip, plus two two-hour pre-trip orientation meetings and one two-hour post-trip meeting for a final written examination.

BIO 175, A, B, C  
BIOLOGY FIELD STUDIES: SIERRA MOUNTAINS  1/5/1.5

A study of the flora and fauna and natural history of selected sites within the Sierra Mountains and adjacent areas. Scheduled to utilize holidays to minimize conflict with other classes.

BIO 176  
BIOLOGY FIELD STUDIES: SAGUARO NATIONAL PARK  2/1/3

A study of the natural history of Saguaro National Park. It will include plant and animal community composition, soils, water, desert ecosystems, desert origin and development, plant and animal behavior and adaptation to xerophytic climates, symbioses, and desert ecosystem dynamics and succession.

BIO 179  
BIOLOGY FIELD STUDIES: COLORADO RIVER  1 or 2/5 or 1/1.5 or 3

A study of the flora and fauna and natural history of selected sites within the Colorado River and adjacent areas.

BIO 180  
BIOLOGY FIELD STUDIES: MOJAVE DESERT  1 or 2/5 or 1/1.5 or 3

A study of the flora and fauna and natural history of selected sites within the Mojave Desert and adjacent areas.
BIO 191  1 or 2/.5 or 1/1.5 or 3
BIOLOGY FIELD STUDIES: SEQUOIA NATIONAL PARK
A study of the flora and fauna and natural history of selected sites within Sequoia National Park and adjacent areas. Scheduled to utilize holidays to minimize conflicts with other classes.

BIO 192  1/5/1.5
BIOLOGY FIELD STUDIES: MOUNT WHITNEY
A study of the flora and fauna of the pinyon-juniper woodland in the Mt. Whitney wilderness area.

BIO 194, A, B  1 or 2/.5 or 1/1.5 or 3
BIOLOGY FIELD STUDIES: CALIFORNIA COASTAL ISLANDS—CATALINA ISLAND
A study of the ecology of estuaries of Catalina Island. The course will include origin of estuaries, morphology and parameters of estuarine basins, estuarine shores and substrates, and flora and fauna identification.

BUS 1  3/3/0
INTRODUCTION TO BUSINESS
Survey course provides an awareness of the functions of business in society, both domestically and internationally. Promotes an appreciation for business ownership; competition; and the systems, technology, and controls through which business organizations operate. Provides the opportunity for developing critical thinking skills regarding the role business plays in worldwide economics and its effect on people as members of society. Course may be offered by mediated mode of instruction.

BUS 101  3/3/0
BUSINESS LAW
Introduction to the legal environment of American business including history; legal systems; social, ethical, and political forces affecting the development and operation of the legal system. A focal point of the course is the law of contracts and sales of goods. Additional topics include ethical considerations impacting management's decision-making, torts, crimes, business organizations, bailments, agency and employment, product liability, and constitutional issues. Course may be offered by mediated mode of instruction.

BUS 102  3/3/1
ORAL BUSINESS TECHNIQUES
Focuses on workplace communication skills necessary for success. Teaches researching, creating, and delivering business presentations using presentation software, Microsoft (PowerPoint). Includes organizational and interpersonal communication, problem-solving with colleagues, teamwork and leadership skills, interviewing, business etiquette, and the reduction of communication anxiety. Students will improve their listening skills as well as their verbal and nonverbal competencies.

BUS 103  3/3/0
BUSINESS ENGLISH
Studies the basics of English grammar and sentence structure through short exercises with business themes. Focuses on correcting the most common errors of grammar, punctuation, and usage. Includes review of the parts of speech, improvement of spelling and vocabulary, and proofreading. Lays the foundation for clear business writing. Course may be offered by mediated mode of instruction.

BUS 104  3/3/1
BUSINESS COMMUNICATION
Prerequisite: BUS 103 or ENG 1A
Presents the principles and styles of effective written business communications. Students will analyze business case studies to create appropriate documents and compose business letters, memorandums, reports, and employment-related documents. Students will also develop planning, organizing, and outlining skills as well as editing proficiency. They will participate in team and Web activities and will improve ethical and cultural sensitivity. Course evaluates grammar skills and improves writing style. Course may be offered by mediated mode of instruction.

BUS 105  3/3/0
LEGAL ENVIRONMENT OF BUSINESS
Focuses on the legal system as it affects the business environment; on sources of law, and on law's impact on social, business, and ethical issues. Emphasis is on law as it pertains to business torts, personal torts, crimes, contracts, business regulation, agency and employment, international business, and protection of intellectual property. Course may be offered by mediated mode of instruction.

BUS 31  3/2/3
TEXTILES
Fabric selection and care considering fibers, yarns, weaves and color. Emphasis on properties of fiber as related to their end use and consumer understanding of fiber performance. Also listed as FASH 31. Credit to be given in either area, not both.

BUS 106  3/3/0
PERSONAL LAW
Law for the individual and family for life-long decision-making. Topics include legal problems associated with family relationships, impairment of physical and mental health, home and vehicle ownership, evaluation of insurance coverage, employment relationships and other contracts, crime, torts, estate planning for death or incompetence, courts, and dispute resolution. Emphasis is on preventive law to minimize stress associated with legal problems and achieve optimal physical and mental health.

BUS 110  3/3/0
BUSINESS FINANCE
Recommended Preparation: ACCT 1A
Course describes fundamentals of business organizations, capitalization, financial planning, credit, special problems of small business, problems of expansion, liquidity, and solvency. Both short-term and long-term capital markets are studied in the context of sources of funds for business operations. Designed to give the student a practical understanding of economic and financial markets affecting everyday life and business decision-making; emphasis on domestic and international market forces, interest rates, inflation, money supply, basics of statistical information-gathering, time value of money, risk and rates of return, and stock and bond valuation. Also listed as ACCT 110. Credit to be given in either area, not both.

BUS 115  3/3/0
HUMAN RELATIONS IN BUSINESS
Behavioral science concepts applied to management and development of human resources in the social subgroup of business organizations. Focuses on the ways people act in response to their working environment; creates awareness of policies and actions which prevent or resolve problems among individuals within groups; develops methods of inquiry used through study of current management techniques; and stimulates critical thinking about human organizational challenges, workforce diversity, and solutions aimed at greater productivity of the individual, groups, and customer service.
BUS 135 3/3/0
ELEMENTS OF MARKETING
Introduction to the marketing function and how marketing relates to profit and non-profit organizations and to the overall economy. Course provides analysis of marketing strategies necessary to develop and market, as well as providing ways of handling product and service development, pricing, distribution, promotion, and uses of new technologies, including e-commerce. Stimulates problem-solving with case studies. Course may be offered by mediated mode of instruction.

BUS 136 3/3/0
PRINCIPLES OF RETAILING
Study of merchandising, marketing, management, staffing, buying, pricing, transaction/stock control, location, layout, service, consumer behavior, and current problems and trends, as they apply to the retailing of goods and services.

BUS 137 3/3/0
PROFESSIONAL SELLING FUNDAMENTALS
Covers the principles, problems, and techniques of one-on-one selling of ideas, products, and services in today's domestic and international markets. Active participation provides practical experience through guided role-playing with techniques for success as a sales professional. Psychological and social aspects of buyer motivation are studied, as well as critical thinking, elements of presentation, and ethics, as appropriate for developing beginning sales skills. The course may adopt particular business sectors to use as a session-long case study to more fully apply sales techniques. Course may be offered by mediated mode of instruction. (ID Regional Program #ID 160)

BUS 138 3/3/0
ADVERTISING
Contemporary advertising for profit and non-profit organizations. Course will survey strategies, design approaches, electronic applications, and media selection. In addition, the elements of good copy, layout, and production of both print and electronic media, including email, e-marketing, e-retailing and web sites will be discussed. Also listed as CA 138. Credit to be given in either area, not both.

BUS 143 3/3/0
FASHION BUYING AND MERCHANDISING
Study the principles and techniques of merchandising especially pertinent to the fashion industry. They will include the buying function, methods of merchandising fashion, and merchandising control. Also listed as FASH 143. Credit to be given in either area, not both.

BUS 145 1/1/0
INTERNSHIP
Corequisite: CWE 168/169
Supervised and educationally directed internship. Weekly lectures will relate on-the-job experiences with academic program. To be taken in the final semester of program. Also listed as FASH 145. Credit to be given in either area, not both.

BUS 147 3/2/2
THE FASHION SHOW
Emphasis on student-produced fashion show. The course will provide fashion office training in fashion promotion, retail sales, advertising, and public relations. Also listed as FASH 147. Credit to be given in either area, not both.

BUS 148 1/1/1
FASHION DISPLAY
This course trains the student in visual merchandising as both an art form and a selling technique in fashion retailing. The use of color, outfit coordination, store layout, fixtures, lighting, signing, composition, mannequins, and props will be studied. Also listed as FASH 148. Credit to be given in either area, not both. R E 3

BUS 150 3/3/0
SURVEY OF INTERNATIONAL BUSINESS
A comprehensive overview of global business with emphasis on cultural differences and global business concepts and issues influencing international business decision-making. Analysis of historical, cultural, social, technological, legal, environmental, educational, and language implications; emerging markets; international trade; foreign investments; financial markets; international management; and international business strategic planning issues and trends. Course may be offered by mediated mode of instruction.

BUS 160 3/3/0
SMALL BUSINESS MANAGEMENT
Focuses on evaluating the benefits and risks of small business ownership. Course surveys principles of small business for managing, marketing and financing a sole proprietorship, partnership, and/or small corporation. Will provide guidance to develop a business plan. Course may be offered by mediated mode of instruction. (ID Regional Program #ID 280)

BUS 189 .5-4/.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

BUS 221 3/3/0
HUMAN RESOURCES MANAGEMENT
Introduction to the functional areas of human resources management and its role in and relationship to organizations. Provides a basic understanding of human resources management and personnel administration functions and the strategies involved in the decision-making, problem solving, and challenges that affect organizations including historical and contemporary human resources management concepts, theories, and issues; organizational, social and cultural, legal, labor, and workplace environments; global issues; personnel administration; the role and responsibilities of management; employee rights; labor relations; recruitment; interview; selection; and workforce diversity, training, and development.

BUS 290 1/1/0
DYNAMICS OF THE JOB SEARCH
An intensive experiential-based course designed to equip students with basic skills necessary to obtain desired employment position. Emphasizes demonstration, practice, and feedback in learning resume writing, job hunting, and interviewing techniques. Critical issues of career development; interpersonal communication, support systems, advancement, and career-change strategies will be explored. Course may be offered by mediated mode of instruction.

BUS 295 1/1/0
INTERNSHIP PREPARATION—BUSINESS
Designed to prepare for on-the-job experiences in a business environment. Career goals, analysis and techniques of job application, interviewing, and resume writing will be emphasized. R E 3
**Chemistry**

**CHEM 1A** 5/3/6
**GENERAL CHEMISTRY**
Prerequisite: MATH 253
Corequisite: CHEM 106
Recommended Preparation: CHEM 3 or a strong high school chemistry course
An introduction to the principles of chemistry. Topics include: atomic and molecular structure, bonding, nomenclature, formulas, equations, stoichiometry, thermodynamics, gases, liquids, solids and solutions.

**CHEM 1B** 5/3/6
**GENERAL CHEMISTRY**
Prerequisite: CHEM 1A with a grade of "C" or better
Includes the following topics: thermodynamics, equilibria, kinetics, acids and bases, oxidation-reduction, electrochemistry, coordination chemistry, and qualitative analysis.

**CHEM 3** 4/3/3
**FUNDAMENTAL CHEMISTRY**
Prerequisite: MATH 251
Recommended Preparation: MATH 253
A study of basic principles of chemistry designed especially for the student who intends to take CHEM 1A but needs more preparation. Topics include problem-solving and calculation methods, nomenclature, formulas, equations, stoichiometry, thermodynamics, atomic and molecular structure, bonding, gases, solutions, equilibrium, acids, and bases.

**CHEM 12A** 5/3/6
**ORGANIC CHEMISTRY**
Prerequisite: CHEM 1B with a grade of "C" or better
A study of the principles, theories, and reactions of organic chemistry with emphasis on the relations of structure and reactivity. The course is recommended for students whose major is chemistry or a closely-related field such as biology, biochemistry or chemical engineering. The following topics are included: stereochemistry, aliphatic and aromatic compounds, preparations and reactions of certain organic compounds, and spectroscopic methods.

**CHEM 12B** 5/3/6
**ORGANIC CHEMISTRY**
Prerequisite: CHEM 12A with a grade of "C" or better
A continuation of CHEM 12A. The following topics are included: preparations and reactions of certain organic compound types, polyunsaturated and heterocyclic compounds, polymers, lipids, carbohydrates, amino acids, proteins and biochemical processes.

**CHEM 106** 2/2/0
**BASICS OF CHEMISTRY**
Corequisite: CHEM 1A
A course to be taken concurrently with CHEM 1A. Consists of quiz/discussion/problem-solving/drill sessions. Designed to help students succeed in their study of general chemistry.

**CHEM 108** 4/3/3
**INTRODUCTION TO GENERAL, ORGANIC, AND BIOCHEMISTRY**
A one semester study of inorganic, organic, and biochemistry for health professionals, particularly students planning to enter Saddleback's Nursing program. Also suitable for many dental hygiene and BSN programs and for interested non-science majors. The course is designed to be the student's first chemistry course and to help the student succeed in their study of general chemistry.

**CHEM 120** 4/3/3
**CHEMISTRY OF EVERYDAY LIFE**
A look at issues of contemporary interest to the layman from a chemical point of view. The chemistry employed is limited to that necessary for a coherent treatment of selected topics such as foods and food additives, vitamins, drugs, household chemicals, polymers, energy production, nuclear power, and chemical pollution. Also listed as ENV 120. Credit to be given in either area, not both.

**CHEM 189** 1/1/0
**COMPUTER-ASSISTED CHEMISTRY**
A computerized course which may be taken concurrently (as an adjunct) with CHEM 1A, 1B, or 3. The course consists of a set of computerized practice problems, a portion of which the student must complete satisfactorily for credit. Sixty-seven (67) separate topics will be available. This course is offered on a credit/no credit basis. Course will be offered in a mediated mode of instruction. R E 3

**CHEM 1A** 5/3/6
**ELEMENTARY CHINESE**
Corequisite: CHI 999A
Recommended Preparation: College-level reading ability
Designed to develop the fundamentals of communicative competence in daily spoken Chinese. Emphasis is on reading and writing skills, as well as fundamental aspects of culture. Equivalent to two years high school Chinese.

**CHEM 1B** 2.5/3/0
**INTRODUCTORY ELEMENTARY CHINESE**
Corequisite: CHI 999A
Recommended Preparation: College-level reading ability
Designed to develop fundamentals of communicative competence in daily spoken Chinese. Elementary reading and writing will be introduced, as well as aspects of culture. CHI 1A is equivalent to the first half of a regular elementary language course. Combination of CHI 1A and 1B is equivalent to two years high school Chinese.

**CHEM 299** 1/1/0
**CONTINUING ELEMENTARY CHINESE**
Corequisite: CHI 999A
Recommended Preparation: CHI 1A or one year of high school Chinese
Reviews and expands the fundamentals of communicative competence in daily spoken Chinese. There is increased emphasis on reading and writing skills, as well as fundamental aspects of culture. CHI 1B is equivalent to the second half of a regular elementary language course. Upon completion, students may enroll in CHI 2. Combination of CHI 1A and 1B is equivalent to two years high school Chinese.
GREEK AND LATIN ROOTS
BUILDING ENGLISH VOCABULARY THROUGH

Recommended Preparation: CHI 1 or 1B or two years of high school Chinese
Designed to further the fundamentals of communicative competence in daily spoken Chinese. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester.

PREREQUISITE

CHI 2
ELEMENARY CHINESE

Corequisite: CHI 999A
Recommended Preparation: CHI 1 or 1B

PREREQUISIT

CHI 21
INTRODUCTION TO CHINESE CULTURE

Recommended Preparation: Classroom level reading ability
Brief overview in English of the history, geography, economic, and political systems and culture of the Chinese, designed as a general introduction to Chinese culture. Topics will include: the present implications of the thousand-year-long history, developmental imbalances as a consequence of geographical and communication barriers, the ethnic and other origins of cultural diversities, the integrative power of the written language, the stability of the family system, and the tension between tradition and modernity. No prior study of Chinese language or culture required.

PREREQUISIT

CHI 250
PRACTICAL CHINESE

A basic course in Chinese emphasizing conversational skills as applied to everyday situations, including business, travel, and related topics. Consideration also given to cultural topics. Assumes no prior knowledge of the language. R E 1

PREREQUISIT

CHI 999A
CHINESE LANGUAGE LAB

Corequisite: CHI 1, 1A, 1B, 2
Requires concurrent enrollment in designated Elementary Chinese courses. Enhances and provides practice in skills learned in Elementary Chinese courses. Minimum one hour per week required. R E 3

Communication Arts

CA 1
MASS MEDIA AND SOCIETY

A study of mass media and media technology as they apply to society. Includes a study of media functions, responsibilities, practices, and influences, as well as a study of media law, ethics, history, development, and potential for the future. The course is designed to increase student awareness of the impact of mass media in shaping society. Also listed as JRN 1. Credit given in either area, not both. Course may be offered by mediately mode of instruction.

CA 29
WOMEN IN FILM AND TELEVISION

A historical perspective on the role of women in film politically, economically, philosophically, highlighting the work of women in front of and behind the camera. Includes various genres and analysis of the societal impact women have had in film. Students will view and evaluate a large cross-section of films.

CA 30
THE HISTORY AND APPRECIATION OF FILM

The evaluation of film as an art form and as a medium of mass communication through exploration of its history, literature, creative techniques, and relationship to society. Students will view and critique outstanding films from different eras of cinema's history. Fulfills the humanities requirement.

CA 31
FILM PRODUCTION I

Teaches the student single-camera style film production. A variety of projects will be shot on digital video. Pre-production topics include language of cinematography, telling a visual story, script and character development, writing, and producing. Shooting topics include blocking and composition, basic lighting and audio techniques, and master scene technique. Post-production is completed on non-linear systems. R A 3

CA 32
FILM PRODUCTION II

Recommended Preparation: CA 31
Students will produce and shoot short films to air on Channel 39, including comedy, drama, and documentary-style films. Other segments produced for Channel 39 also include interviews with independent filmmakers, film festival updates, and more. Students will shoot single-camera film style, using advanced digital film production equipment and editing on advanced non-linear programs. R A 3

CA 40
FILM AND TELEVISION SCRIPTWRITING I

Prerequisite: Completion of or concurrent enrollment in ENG 1A
Emphasizes the theories, formats, practices, and organization in writing scripts for television broadcasting and film production. Includes developing characters, rewriting, dialogue, formatting, story and structure. R A 3

CA 42
TELEVISION AND FILM DIRECTING

Recommended Preparation: CA 124
Provides students training in the elements of directing for film and television. Includes blocking and directing talent and cameras. Switching live to tape and post-production elements for studio and location shooting also covered.

CA 110
RADIO PRODUCTION

Emphasizes the basic principles and techniques of developing, producing, and directing various types of radio programs and spot announcements in the areas of public service, commercial-spot announcements, talk shows, music programs, and sports programs.

CA 111
ADVANCED AUDIO IN MEDIA

An advanced course in audio-production techniques used for radio, television, film, and new media. Course offers students hands-on experience using digital audio equipment. Applications and techniques will be discussed and demonstrated in the areas of recording, mixing, effects, and mastering. Audio terminology and current equipment technology will be applied to pre-production, production, and post-production.

CA 113
RADIO BROADCASTING

Explore the basic elements of radio-station operation. Areas include station organization, music and talk programming formats, promotions, sales, announcing, and FCC regulations. Prepares students for advanced courses and participation in actual on-air experiences at a later date.

CA 114
RADIO STATION ACTIVITIES

Recommended Preparation: CA 110 and 113 plus auditions
Provides the student with regular and continuing experience in the operation of the college radio station, KSBR-FM. Students may elect roles in the radio operation involving on-air announcing, special production, programming, and news and public affairs.
### Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Hours Per Week</th>
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<tbody>
<tr>
<td>ACCT 220</td>
<td>Introduction to Financial Planning</td>
<td>3/3/0</td>
<td>3/3/0</td>
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<tr>
<td>CA 115</td>
<td>Advanced Radio Broadcasting</td>
<td>2/1/2</td>
<td>2/1/2</td>
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<tr>
<td>CA 118</td>
<td>Sound Recording - Theory and Practice</td>
<td>4/3/3</td>
<td>4/3/3</td>
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<tr>
<td>CA 124</td>
<td>Television Production I</td>
<td>4/3/3</td>
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<tr>
<td>CA 125</td>
<td>Television Production II</td>
<td>4/3/3</td>
<td>4/3/3</td>
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<tr>
<td>CA 126</td>
<td>Television Production III</td>
<td>2/4/0</td>
<td>2/4/0</td>
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<tr>
<td>CA 127</td>
<td>Video Location Production</td>
<td>2/4/0</td>
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<tr>
<td>CA 128</td>
<td>Radio-Television News and Public Affairs</td>
<td>3/2/3</td>
<td>3/2/3</td>
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<tr>
<td>CA 129</td>
<td>History and Appreciation of Radio and Television</td>
<td>3/3/0</td>
<td>3/3/0</td>
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<tr>
<td>CA 130</td>
<td>Non-linear Editing</td>
<td>3/2/2</td>
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<tr>
<td>CA 133</td>
<td>Digital Cinema Production Basics</td>
<td>3/2/2</td>
<td>3/2/2</td>
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<tr>
<td>CA 138</td>
<td>Advertising</td>
<td>3/3/0</td>
<td>3/3/0</td>
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<tr>
<td>CA 141</td>
<td>Radio and Television Announcing and Voice-over</td>
<td>3/3/0</td>
<td>3/3/0</td>
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<tr>
<td>CA 142</td>
<td>Television and Film Scriptwriting II</td>
<td>3/3/1</td>
<td>3/3/1</td>
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<tr>
<td>CA 145</td>
<td>Broadcast and Cable Sales</td>
<td>3/3/0</td>
<td>3/3/0</td>
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<tr>
<td>CA 189</td>
<td>Special Topics</td>
<td>.5-4/.5-4/.5-9</td>
<td>.5-4/.5-4/.5-9</td>
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<tr>
<td>CA 232</td>
<td>Advanced Non-linear Editing</td>
<td>3/2/2</td>
<td>3/2/2</td>
</tr>
<tr>
<td>CA 233</td>
<td>Radio/Television/Film Internship</td>
<td>3/2/2</td>
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### Description

- **Advanced Radio Broadcasting**: Recommended Preparation: CA 110, 113. Provides the student with continuing experience in operating the college radio station, KSBR-FM. Emphasis will be placed on operating studio equipment and in music programming and formats. Provides the student interested in a professional career in broadcasting with a variety of broadcast experiences. **R E 3**

- **Sound Recording - Theory and Practice**: Initial exposure to sound-recording principles, techniques, and equipment. Emphasizes current processes and application through discussion and "hands-on" experience. Also listed as MUS 118. Credit to be given in either area, not both. (Formerly CA 116)

- **Television Production I**: A hands-on course in producing, directing, and shooting television programs. Extensive studio experience is provided through 3-camera shooting, using all crew positions. Course also covers remote shooting and non-linear editing.

- **Television Production II**: Recommended Preparation: CA 124. An advanced course in producing television programming with an emphasis on shooting, directing, and editing, using industry-standard equipment.

- **Television Production III**: Recommended Preparation: CA 124. A hands-on production course emphasizing 3-camera and single camera shooting. Students will produce, direct, and crew programs airing on Saddleback College television. **R E 3**

- **Radio-Television News and Public Affairs**: Designed to acquaint students with the fundamental skills for gathering, writing, and producing news for broadcast media. Includes anchoring, writing, reporting, and producing news for non-print media. **R E 3**

- **History and Appreciation of Radio and Television**: Designed to give the student a comprehensive overview of the history and appreciation of radio and television. The focus will be the development and evolution of both media. Additionally, the course will analyze the formats and programming of contemporary radio and television. Students will learn to evaluate and understand the impact radio and television have had and will continue to have on society and culture.

- **Non-linear Editing**: Recommended Preparation: CA 124. An introduction to the aesthetics and physical elements of editing on a digital non-linear system. Includes analysis and application of software as it is developed for various systems and an overview of the multimedia market. The student will also learn how to post projects in both professional and consumer categories. **R E 3**

- **Digital Cinema Production Basics**: Recommended Preparation: CA 29 or 30. Basic production techniques. Introduction to the aesthetics of digital cinema production. Students will develop an understanding of the film, video, and digital vocabulary along with a working knowledge of the various crew descriptions and their responsibilities. Students will be exposed to the equipment used for production and a basic understanding of the operation of the equipment. Equipment covered: digital video cameras and recorders, digital and analog audio equipment, lighting equipment, grip equipment, and linear and non-linear editing systems.

- **Advertising**: Contemporary advertising for profit and non-profit organizations. Course will survey strategies, design approaches, electronic applications, and media selection. In addition, the elements of good copy, layout, and production of both print and electronic media, including email, e-marketing, e-retailing and web sites will be discussed. Also listed as BUS 138. Credit to be given in either area, not both.

- **Radio and Television Announcing and Voice-over**: Developing effective radio and television speech techniques, stressing the variety of broadcast speech forms and requirements. Students will record, playback, and critique voice-overs in studio.

- **Television and Film Scriptwriting II**: Recommended Preparation: CA 40. Advanced level script writing from initial concept to final product. Students who enroll in this class should be working on a script or have scriptwriting experience. A combination of CA 40 and 142 may be taken a maximum of 4 times. **R A 3**

- **Broadcast and Cable Sales**: An analysis of sales and sales management functions in radio, television, and cable. Includes study of the methodology and practical applications of sales office organization, traffic operations, inventory control, sales research, audience demographic surveys, sales promotions, and advertising message design and production. Explores the implications of the electronic media’s dependence on advertising revenues.

- **Special Topics**: The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. **R E 3**

- **Advanced Non-linear Editing**: Prerequisite: CA 131. Recommended Preparation: CA 29 or 30. Using lecture, practical demonstrations, and lab projects, the student will learn advanced computer-based non-linear post-production techniques. Emphasis will be placed on image manipulation, creation and importing of digital animatics, audio enhancement, and image output for various formats.
CA 235
2D MOTION GRAPHICS
Recommended Preparation: CA 29 or 30
Introduction to creating 2D motion graphics and visual effects in the non-linear edit suite or desktop. Using state-of-the-art special effects software, students will learn to combine graphic images with digital video projects, create key-frame 2D animations, and text effects, and use visual effect filters. A combination of CA 235 or 236 may be taken a maximum of four times. R A 3

CA 236
ADVANCED 2D/3D MOTION GRAPHICS
Prerequisite: CA 235
Recommended Preparation: CA 29 or CA 30 and 131
Learn advanced 2D motion graphic techniques available in the current special-effects software. Lecture and class demonstrations will teach students how to create sophisticated multilayered compositions and apply color/visual correction and ‘film look’ effects. In addition, class will focus on the integration of 3D text and 3D worlds within a 2D environment through the use of current industry software. A combination of CA 235 or 236 may be taken a maximum of four times. R A 3

CA 237
DIGITAL COMPOSING AND EFFECTS
Prerequisite: CA 131
Recommended Preparation: CA 29 or 30
Digital composing and visual effects creation for digital cinematography and other visual environments. Students learn to use problematic digital video footage to refine, enhance, and polish various shots and scenes for existing digital video projects. Various industry-standard composing and effects software will be used to demonstrate various effects and techniques such as digital video painting, traveling mattes, motion tracking, wire removal, rotoscoping, blue/green screen keying, and compositing.

CA 238
DVD VIDEO CREATION
Prerequisite: CA 31
Recommended Preparation: CA 29 or CA 30 and 131
Learn the elements and techniques involved in creating a corporate, educational, or entertainment DVD title from a digital project. Topics and class demonstrations focus on the integration of various media and graphical assets from a variety of formats. MPEG video encoding, audio processing, menu creation, and slide shows are combined to complete a finished DVD title. R E 3

Computer Information Management

CIM 1
INTRODUCTION TO COMPUTER INFORMATION SYSTEMS
Provides an overview of computer information systems and introduces computer hardware, software, procedures, systems, and the Internet with emphasis on their application in business. The student completes a number of hands-on computer assignments using Windows, Excel, Access, and the Internet. Course may be offered by mediated mode of instruction.

CIM 2A
BUSINESS PROGRAMMING I: VISUAL BASIC
Recommended Preparation: CIM 243
Provides an introduction to the fundamentals of event-driven, object-based programming using Microsoft Visual Basic. Emphasis is on business application development. Topics include graphical design of Windows, programming event procedures, general procedures and application development with multiple windows. Students will create complete applications in addition to weekly exercises in visual programming. Course may be offered by mediated mode of instruction. R E 1

CIM 2B
BUSINESS PROGRAMMING II: VISUAL BASIC
Recommended Preparation: CIM 2A
Expands upon the object-oriented, event-driven paradigm of Rapid Application Development (RAD) using Visual Basic and supplemental custom controls. Topics covered include third-party extensions to Visual Basic, application development using current/accepted programming conventions, creating client/server front ends to ODBC databases using Data Access Object, creating custom reports, and tapping the resources of the Windows Dynamic Link Libraries. Course may be offered by mediated mode of instruction. R E 1

CIM 6A
BUSINESS PROGRAMMING I: C++
Recommended Preparation: CIM 243
Covers C++ and object-oriented programming for software development of business applications. Topics covered include C++ as an object-oriented design tool, class and data types, functions, overloading operators, inheritance, object-oriented programming concepts, I/O stream library, and reusability. Course may be offered by mediated mode of instruction. R E 1

CIM 6B
BUSINESS PROGRAMMING II: C++
Recommended Preparation: CIM 6A
Covers Windows application development using advanced C++ concepts for programming business applications. Topics covered include object-oriented design techniques, encapsulation, inheritance, polymorphism, and code reuse. Business applications are developed using Visual C++, Microsoft Foundation Classes (MFC), and the Standard Template Library (STL). R E 1

CIM 7A
BUSINESS PROGRAMMING: JAVA—BEGINNING
Recommended Preparation: CIM 2A or 4 or 6A
Covers the Java language and object-oriented programming for development of business applications. Topics covered include: the significance of Java as an object-oriented programming tool, classes and methods, input and output, apples, networking, graphics, GUI concepts, threads, interfaces, packages, and the Java API. Course may be offered by mediated mode of instruction. R E 1

CIM 7B
BUSINESS PROGRAMMING: JAVA—ADVANCED
Recommended Preparation: CIM 7A
A continuation of CIM 7A. It comprises an in-depth study of advanced topics in the Java programming language. Provides the skills needed for advanced programming projects including network programming, exception handling, multithreading, images and animation. R E 1

CIM 10
INTRODUCTION TO INFORMATION SYSTEMS
An introductory concepts and applications software course. Emphasis on hardware and software analysis and design of computers and other types of information systems used for creating, maintaining, retrieving, printing, and communicating computer files. Exercises using word processing, spreadsheet, database, graphics, and communications, including an introduction to the Internet, which provides the experience necessary to recognize the major capabilities available in each software application and how the software applications work together in an integrated information systems environment. (Formerly CIM 110)
CIM 112
MICROSOFT OFFICE
Provides a computer exploration of Microsoft Office, the Windows operating system, and the Internet. Extensive activities are provided using word processing, database management, spreadsheets, and presentation software. Focus includes creating, maintaining, and querying a database management system; creating, editing, formatting, and printing text and spreadsheet documents; creating form letters (mail merge), mailing labels, and envelopes; and using OLE (Object Linking and Embedding) and Copy and Paste to create compound documents containing text, database, and spreadsheet data. Course may be offered by mediated mode of instruction. R A 3

CIM 120
COMPUTER LITERACY
Provides students with basic knowledge of how computers are used in today’s world. Focuses on using the computer as a tool to manage information, access the Internet, telecommunicate to and with others, and enhance lifelong learning in a technologically-changing society. Exercises in using word processing, spreadsheet, database, graphics, and communications software. No computer experience is required. Course may be offered by mediated mode of instruction. R E 3

CIM 121A
KEYBOARDING FOR COMPUTERS: BEGINNING
Designed to introduce touch keyboarding of letter, number, and symbol keys on the computer. Introduces basic computer operation; no previous computer or typewriting experience required. Course may be offered by mediated mode of instruction. R A 3

CIM 121B
KEYBOARDING FOR COMPUTERS: INTERMEDIATE
Recommended Preparation: CIM 121A
Builds keyboarding speed and accuracy. Introduces word processing command keys and format features to produce memorandums, letters, bound and unbound reports, and job application documents. R A 3

CIM 121C
KEYBOARDING FOR COMPUTERS: ADVANCED
Recommended Preparation: CIM 121B
Improves keyboarding speed and accuracy. Expands use of word processing command keys and format features to produce memorandums, letters, bound and unbound reports, and job application documents. R A 3

CIM 142
SYSTEMS ANALYSIS AND DESIGN
Recommended Preparation: CIM 1 or 10
or 170
Provides the tools and techniques to conduct a systems analysis and design in today’s business enterprises. Focuses on determining user requirements and processes, how data is distributed across platforms, appropriate systems, architectural designs, developing systems integration processes, implementation strategies, and detailed tasks that encompass all aspects of the system development life cycle and evaluation issues. Hands-on system-analysis applications will be developed using an expert system-based methodology with automated documentation. R E 1

CIM 171
COMPUTER OPERATING SYSTEMS: DOS
COMMAND LINE—WINDOWS
Recommended Preparation: CIM 171B or 174
Provides an in-depth study of computer hardware and operating system concepts. Focuses on the command line interface (DOS), command syntax, disk organization, writing simple to complex batch files, troubleshooting, connectivity with local and wide area networks, and the Registry. Students will solve problems using the command-line interface in the Windows environment. Course may be offered by mediated mode of instruction. R E 3

CIM 171A
COMPUTER OPERATING SYSTEMS: DOS
COMMAND LINE—WINDOWS
Recommended Preparation: CIM 171B or 174
Provides an overview of computer hardware and operating system concepts. Class studies fundamental computer command syntax with an in-depth study of the operating system commands. Students will use a computer system to execute problem-solving exercises using beginning commands. An editor will be used to manipulate text and write shell scripts. Students will explore basic administrative tasks that are necessary for maintaining a working system. Students will perform common system management tasks. Using the Internet, World Wide Web, and newsgroups will be examined. Course may be offered by mediated mode of instruction. R E 3

CIM 172
COMPUTER OPERATING SYSTEMS: UNIX/ LINUX
Recommended Preparation: CIM 171B or 171
Recommended Preparation: CIM 174A or 174
Provides an overview of computer hardware and operating system concepts. Class studies fundamental computer command syntax with an in-depth study of the operating system commands. Students will use a computer system to execute problem-solving exercises using beginning commands and an editor to manipulate text. R E 3

CIM 172A
COMPUTER OPERATING SYSTEMS: UNIX/ LINUX
Recommended Preparation: CIM 171B or 171
An overview of computer hardware and operating system concepts. Class studies fundamental computer command syntax with an in-depth study of the operating system commands. Students will use a computer system to execute problem-solving exercises using beginning commands and an editor to manipulate text. R E 3

CIM 172B
COMPUTER OPERATING SYSTEMS: UNIX/ LINUX
Recommended Preparation: CIM 172A
Continuation of CIM 172A. Comprises an in-depth study of operating system concepts. Students will explore basic administrative tasks that are necessary for maintaining a working system. Students will perform common system management tasks. Using the Internet, World Wide Web, and newsgroups will be demonstrated. Students will write simple to complex shell scripts. R E 3
CIM 174  3/3/3
COMPUTER OPERATING SYSTEMS: WINDOWS
Provides an overview of computer hardware, software and operating system concepts used on computers. Fundamentals of the operating system Windows are studied in-depth. Topics covered will include hardware, software, manipulating Windows, using Help, launching applications, managing files and folders with Explorer and My Computer, Control Panel, Object-Linking and Embedding, Printing, and Fonts, using DOS programs, as well as handling disk maintenance. Multimedia and communications will be introduced. Course may be offered by mediated mode of instruction. R E 3

CIM 174A  1.5/1.5/1.5
COMPUTER OPERATING SYSTEMS: WINDOWS—BEGINNING
Fundamentals of the operating system Windows are studied in depth. Topics covered will include hardware, software, manipulating Windows, using Help, launching applications, managing files and folders with Explorer and My Computer, as well as handling disk maintenance. Multimedia and communications will be introduced. Course may be offered by mediated mode of instruction. R E 3

CIM 174B  1.5/1.5/1.5
COMPUTER OPERATING SYSTEMS: WINDOWS—INTERMEDIATE
Recommended Preparation: CIM 174A
Topics covered will include Control Panel, Object-Linking and Embedding, Printing and Fonts, using DOS and DOS programs, and handling system maintenance. Multimedia and communications will be introduced. R E 3

CIM 176  3/3/3
COMPUTER OPERATING SYSTEMS: WINDOWS—ADVANCED
Recommended Preparation: CIM 171B or 171, and 174B or 174
Provides an overview of computer hardware, software, and operating system concepts using Windows. Covers security, administration, and implementation in a networking environment. Includes using the GUI, desktop functions, customization in a network environment, architecture including environment subsystems, executive services, memory model, hardware and software requirements, installation, configuration, account administration, file systems, security, networking, and disk management. Focus is on peer-to-peer networks. Course may be offered by mediated mode of instruction. R E 3

CIM 189  .5-.4/1.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

CIM 205  3/3/3
INTRODUCTION TO SQL
Recommended Preparation: CIM 174A or 174
Course in using Structured Query Language (SQL) to create, manipulate, and query databases. The student will learn the fundamentals of database design with a relational database (e.g., entity-relationship diagrams, normalization guidelines, concurrency issues), how to create databases and tables using SQL, the basics of table indexing, and how to do simple and complex table queries using SQL. Course may be offered by mediated mode of instruction. R E 1

CIM 208  1.5/1.5/1.5
MANAGING THE CLIENT/SERVER ENVIRONMENT
Focuses on the organizational, managerial, and architectural issues facing any company which is planning or contemplating a migration to a client/server architecture. Examines the technology behind client/server environment via a review of the different platforms and support levels required to manage them. Also, a review of the changing role of the database server and cost of client/server computing will be analyzed. Course may be offered by mediated mode of instruction. R E 1

CIM 213A  2.5/5/3.5
OFFICE SKILLS—OFFICE PROCEDURES
An introduction to office procedures and basic entry-level skills needed for employment in today’s office environment. Areas of study include office environment, organizational structure, telephone techniques, business math, filing and records management. This is an open-entry/open-exit course. R E 3

CIM 213B  .5/5/2.5
OFFICE SKILLS—KEYBOARDING
A self-paced course designed to introduce touch keyboarding of letter, number, and symbol keys on the computer. Introduces basic computer operation. No previous computer or typewriting experience required. This is an open-entry/open-exit course. R E 3

CIM 213C  .5/5/2.5
OFFICE SKILLS—COMPUTER CONCEPTS
A self-paced introductory course in computer concepts to provide instruction on hardware, software, communications, and networking. This is an open-entry/open-exit course. R E 3

CIM 213D  .5/5/2.5
OFFICE SKILLS—WINDOWS
A self-paced, entry-level course to learn the fundamentals of the operating system Windows. Topics covered will include the desktop, manipulating Windows, using the GUI, desktop functions, control panel, Object-Linking and Embedding, Printing, and Fonts, using DOS programs, as well as handling disk maintenance. This is an open-entry/open-exit course. R E 3

CIM 213E  .5/5/2.5
OFFICE SKILLS—WORD PROCESSING (WORD)
A self-paced course to provide instruction on the use of computer-based word processing software and/or applications. The functions of creating, editing, and manipulating documents of varying sophistication will be accomplished. This is an open-entry/open-exit course. R E 3

CIM 213F  .5/5/2.5
OFFICE SKILLS—SPREADSHEETS (EXCEL)
A self-paced, entry-level course to provide beginning information and training in the use of computer-based spreadsheet software for business applications. Spreadsheet worksheets will be produced for a variety of applications. This is an open-entry/open-exit course. R E 3

CIM 213G  .5/5/2.5
OFFICE SKILLS—DESKTOP PRESENTATION FOR BUSINESS (POWERPOINT)
A self-paced, entry-level course to provide beginning information and training in the use of desktop presentation (PowerPoint) software for business applications. Students create, modify, and enhance desktop presentations. This is an open-entry/open-exit course. R E 3

CIM 213H  .5/5/2.5
OFFICE SKILLS—DATABASE (ACCESS)
A self-paced, entry-level course to provide beginning information and training in the use of database software for business applications. Database queries, tables, and forms will be produced for a variety of applications. This is an open-entry/open-exit course. R E 3

CIM 214  3/3/3
WORD PROCESSING: WORD
Recommended Preparation: CIM 121A, and 10 or 112
Provides information and training on the use of computer-based word processing software and/or applications. The functions of creating, editing, and manipulating documents of varying sophistication will be accomplished. Advanced skills in using features that provide unique layouts and desktop publishing will be provided. Course may be offered by mediated mode of instruction. R E 3
CIM 214A  1.5/1.5/1.5
WORD PROCESSING: WORD—BEGINNING
Recommended Preparation: CIM 121A, and 10 or 112
Provides information and training on the use of computer-based word-processing software and/or applications. The functions of creating, editing, and manipulating documents will be accomplished. Course may be offered by mediated mode of instruction.  R E 3
CIM 214B  1.5/1.5/1.5
WORD PROCESSING: WORD—ADVANCED
Recommended Preparation: CIM 214A
Provides intermediate and advanced skills for the use of word-processing applications software and emphasizes the features available for unique layouts and desktop publishing. Course may be offered by mediated mode of instruction.  R E 3
CIM 216  3/3/3
SPREADSHEETS: EXCEL—BEGINNING
Recommended Preparation: CIM 174A or 174
This entry-level course provides beginning information and training in the use of computer-based spreadsheet software for business applications. Spreadsheet worksheets will be produced for a variety of applications.  R E 3
CIM 216A  1.5/1.5/1.5
SPREADSHEETS: EXCEL—BEGINNING
Recommended Preparation: CIM 174A or 174
This entry-level course provides beginning information and training in the use of computer-based spreadsheet software for business applications. Spreadsheet worksheets will be produced for a variety of applications.  R E 3
CIM 216B  1.5/1.5/1.5
SPREADSHEETS: EXCEL—INTERMEDIATE
Recommended Preparation: CIM 216A
Provides information and training in the use of intermediate computer-based spreadsheet software for business applications.  R E 3
CIM 216C  1.5/1.5/1.5
SPREADSHEETS: EXCEL—ADVANCED
Recommended Preparation: CIM 216B or 216
Provides information and training in the use of advanced computer-based spreadsheet software for business applications. Emphasis will be placed on problem-solving and analytical applications.  R E 3
CIM 218  3/3/3
DATABASE: ACCESS—BEGINNING
Recommended Preparation: CIM 174B or 174
Provides an overview of the database concept and applications. Course will be conducted using at least three different database management software packages.  R E 3
CIM 218A  1.5/1.5/1.5
DATABASE: ACCESS—ADVANCED
Recommended Preparation: CIM 218A
Provides the methodology, techniques, and training that apply database management software (DBMS) to generate applications for solving business problems. This course will be conducted using at least three different database management software packages.  R E 3
CIM 223  1.5/1.5/1.5
COMPUTERIZED ACCOUNTING: QUICKBOOKS
Recommended Preparation: CIM 174A or 174, and ACCT 1A or 215
Provides background and training in the use of Quickbooks software in the Windows environment. Business accounting records are set up to include accounts receivable, accounts payable, merchandise, payroll, and reports.  R E 3
CIM 227  1.5/1.5/1.5
INTERNET AND WEB ESSENTIALS
Recommended Preparation: CIM 174A or 174
Provides an overview of the historical and current aspects of the Internet, a working knowledge of online communications, and the required software and hardware. Students are introduced to Internet skills such as electronic mail, discussion groups, chat rooms, news- groups, file transfer protocol, search techniques and tools, the World Wide Web, and Internet browsers. Web page creation and HTML are introduced. Video conferencing and Internet security are discussed. Course may be offered by mediated mode of instruction.  R E 3
CIM 228A  1.5/1.5/1.5
BUSINESS DESKTOP PUBLISHING—BEGINNING
Recommended Preparation: CIM 174A or 214A or 214
Provides desktop publishing concepts and training using computers, laser printers, scanners, and various page layout software packages for business publications.  R E 3
CIM 228B  1.5/1.5/1.5
BUSINESS DESKTOP PUBLISHING—ADVANCED
Recommended Preparation: CIM 228A
Emphasizes the production of business forms, multiple-page reports, newsletters, proposals, and presentations utilizing stored master pages and templates. Advanced formatting techniques will be studied.  R E 3
CIM 229A  1.5/1.5/1.5
BUSINESS GRAPHICS—BEGINNING
Recommended Preparation: CIM 229A
Introduction to business graphics software packages that have been developed to enable the display of business information in non-textual form utilizing computers. Emphasis is placed on the use of existing commercially available software. The course surveys the concepts, structures, and processes utilized in computers to implement business applications.  R E 3
CIM 229B 1.5/1.5/1.5
BUSINESS GRAPHICS—ADVANCED
Recommended Preparation: CIM 229A
Provides advanced features of business graphics software with particular emphasis on automating and customizing effects and affects. The student will produce professional-looking business information in graphical form. R E 3

CIM 230 1.5/1.5/1.5
BUSINESS PRESENTATIONS: POWERPOINT
Recommended Preparation: CIM 174A or 174
Surveys the concepts, structures, and processes utilized in developing and managing professional business presentations using commercially available software packages. Students will create a variety of presentation formats that include charts, pie graphs, and bar graphs. R E 3

CIM 232 3/3/3
MULTIMEDIA AUTHORING
Recommended Preparation: CIM 174A or 174
Introduces multimedia design and implementation techniques by combining video and sound into an interactive information tool for education or business. Some applications for this technology include marketing, purchasing and advertising formats, and content training presentations. Explores CD-ROM interfaces and introduces sound editing and video capture. Students will create a project combining sound and video to demonstrate basic capabilities in using multimedia technology. Course may be offered by mediated mode of instruction. R E 2

CIM 235A 1.5/1.5/1.5
VIRTUAL REALITY SIMULATIONS—BASIC
Recommended Preparation: CIM 174A or 174
Introduction of PC-based basic authoring concepts for creating interactive, real-time 3D simulations. Students will use imported graphic models and then will change parameters and add movement, lighting, and sound that have interactive effects. Includes information on how to integrate with other standard software (i.e. multimedia tools, development tools, and web browsers) for creating marketing, presentation or training materials. Students of all experience levels will build basic, complete, interactive simulations with no programming experience required; experience with Windows formatting, understanding of graphics programs or modeling experience desirable. (Formerly offered as CIM 235) R E 3

CIM 235B 1.5/1.5/1.5
VIRTUAL REALITY SIMULATIONS—INTERMEDIATE
Recommended Preparation: CIM 235A
Provides advanced hands-on training for creating PC-based interactive, real-time 3D virtual reality (VR) simulations using imported graphic models to create interactive effects, change parameters, and test simulations. Focuses on acquiring software (multimedia tools, development tools, and web browsers) for creating marketing, presentations, or training materials. The basics of using peripheral support in visual simulations for selected hardware (i.e. data gloves, real-time motion tracker, including head mounted displays) will be covered. Students of all experience levels will build complete, interactive simulations with no programming experience required: understanding of graphics programs or modeling experience desirable. R E 3

CIM 236 3/3/3
APPLICATION DEVELOPMENT FOR EXCEL WITH VISUAL BASIC
Recommended Preparation: CIM 216B or 216
Provides information and training in the use of advanced computer applications using the features of Excel and Visual Basic programming to build high-end functionality into custom applications. Prepares student for Microsoft certification test. R E 3

CIM 246 3/3/3
APPLICATION DEVELOPMENT FOR ACCESS WITH VISUAL BASIC
Recommended Preparation: CIM 216B or 216
Provides information and training in the use of advanced computer applications using the features of Access and Visual Basic. Prepares student for Microsoft certification test. R E 3

CIM 249 3/3/3
ADMINISTERING MICROSOFT WINDOWS CLIENTS
Recommended Preparation: CIM 252
Introduces Microsoft Windows through lectures, demonstrations, discussions, and hands-on lab exercises. Topics include installation; tools for administering and configuring Windows; network protocols; user accounts; local group accounts; local security policy and local group policies; print devices; NTFS permissions; how to share folders, data storage, backup and restore data; how to monitor access to network resources and to the local computer; mobile computing; and remote access. R E 3

CIM 251 3/3/1
INTRODUCTION TO NETWORKING
Recommended Preparation: CIM 10
Provides an in-depth look at the terminology, technology, and economic realities of local area network (LAN) and the Operation Systems Interconnection (OSI) protocols. Experience the installation of different network operating systems (NOS): MS Windows NT, Windows 95, Workstation, Workgroups, Novell NetWare 3X and 4X, and Artisoft Lantastic. Course may be offered by mediated mode of instruction. R E 3

CIM 252 3/3/3
NETWORKING ESSENTIALS AND TECHNOLOGIES
Recommended Preparation: CIM 251
Presents LAN and WAN technologies in detail. Network operations, design concepts, and protocols will be covered. Students will learn how to make infrastructure components and set up workstations for LAN operability and WAN interoperability. LAN and WAN networks will be designed and implemented using hubs, switches, and routers. Basic Cisco switch and router programming will be covered. Troubleshooting strategies will be covered in detail. R E 1

CIM 253 3/3/3
SUPPORTING WINDOWS SERVER
Recommended Preparation: CIM 249
Introduces students to Microsoft Windows Server through lectures, demonstrations, discussions, and hands-on labs. Students will perform an attended and an unattended installation of Windows Server and will learn about the various file systems supported by Windows. They will learn how to install and administer Active Directory services and how to manage Active Directory objects. Students will use Microsoft Management Console to monitor system performance and to administer Internet Information Services, user accounts, group accounts, and group policies. Students will learn how to administer print services, install and administer network protocols and services, back up data, implement disaster protection, and recover from a disaster. R E 3

CIM 254 3/3/3
IMPLEMENTING AND ADMINISTERING WINDOWS DIRECTORY SERVICES
Recommended Preparation: CIM 249 and 253
Provides students with the knowledge and skills necessary to install, configure, and administer Microsoft Windows Active Directory directory services. The course also focuses on implementing Group Policy and performing the Group Policy related tasks that are required to centrally manage users and computers. R E 3
CIM 256  FUNDAMENTAL UNIX/LINUX SYSTEM ADMINISTRATION  
Recommended Preparation: CIM 172  
Guides students through the fundamental responsibilities of Unix/Linux system administration. It provides a network administrator with an in-depth look at how to perform day-to-day administrative and maintenance tasks on a Unix/Linux-based network. Topics include file system monitoring, file and directory archiving, user account management, shutdown and rebooting sequences, system backups, system log responsibilities, and basic system security. Includes creation of shell scripts to automate system administration tasks.  R E 3

CIM 257  NETWORKING/INTERNET AND SECURITY ADMINISTRATION USING UNIX/LINUX  
Recommended Preparation: CIM 256  
Provides students with an understanding of the tasks and techniques involved in administering Unix/Linux on a network. Course topics will cover TCP/IP administration, basic service such as email, Web server DNS, DHCP, file and print sharing, and network security issues such as firewalls filtering. The student will learn to set up a Unix/Linux server and configure common network services and security at a basic level.  R E 3

CIM 258  WEB SERVER ADMINISTRATION USING APACHE IN UNIX/LINUX ENVIRONMENT  
Recommended Preparation: CIM 257  
Comprises technical aspects of configuring and maintaining a server to support a Web site and its activities. Operating systems, Web server set up, system control, maintenance, Web site monitoring, and system backup and recovery are included. Apache will be installed and customized to be used as a Web server.  R E 3

CIM 259  WINDOWS NETWORK INFRASTRUCTURE ADMINISTRATION  
Recommended Preparation: CIM 249 and 252  
Prepares students to plan a network infrastructure around features supported by Windows issues such as network protocols, and services are compared based on the requirements of their organization. The importance of the Transmission Control Protocol/Internet Protocol (TCP/IP) for enterprise networks is emphasized. This includes Domain Name System (DNS), Windows Internet Name Service (WINS), and Dynamic Host Configuration Protocol (DHCP) in Active Directory-enabled environments. Students will also learn how to configure, manage, secure, and troubleshoot features and services for Windows enterprise networks, including Routing and Remote Access. Course may be offered by mediated mode of instruction.  R E 3

CIM 260  WEB DEVELOPMENT: VISUAL INTERDEV  
Recommended Preparation: CIM 256  
Teaches web site developers who perform architectural planning, technology selection, or web site programming tasks how to create enterprise-level web sites that use component object model (COM) components on both the client and the server.  R E 3

CIM 261  WEB DEVELOPMENT: ACTIVE SERVER PAGE (ASP)  
Recommended Preparation: CIM 257  
Examines the web interface with advanced media and the surrounding technology to incorporate it on the web. All aspects of digital cameras, scanning (both slide and print), analog and digital camcorders and sound recordings (digital, MIDI) will be discussed as well as the multimedia distribution of video, streaming video, visual simulations, Quick Time VR, panorama images, animations, and sound medias.  R E 3

CIM 262  JAVASCRIPT  
Introduces basic JavaScript programming concepts, layers, and cascading style sheets, the basic elements of dynamic HTML, along with programming logic and debugging, and the syntax for implementation in web site development. Course focus will be on using JavaScript to add control and interactivity to web pages through the use of variables, functions, objects, and events, as well as use of data types and operators; structured logic using control structures and statements; and window, frame, and form concepts.  R E 3

CIM 263  INTRODUCTION TO PERL PROGRAMMING  
Uses the Perl programming language with the World Wide Web for use in retrieving, manipulating, and displaying data from HTML pages. The student will learn the fundamentals of CGI programming using Perl (e.g. How to create HTML forms to capture user input, how to initiate a server-based Perl program using the user input, and how to create HTML pages dynamically from Perl programs and display them back to the user). All major functions of the Perl programming language will be covered including program loops, variable types, hash variables and functions, expressions, patterns, filehandles, using subroutines, and passing parameters via CGI.  R E 1
CIM 271B 1.5/1.5/1.5
ADVANCED WEB DEVELOPMENT
Recommended Preparation: CIM 271A
Introduces advanced concepts of web development for creating robust web pages that enable the structured and improved delivery of information over a corporate Intranet or the World Wide Web. Create DHTML, HTML, and VRML documents that separate style from content and feature two-directional and multi-target links, as well as convert existing HTML documents to XML.
R E 3

CIM 272A 1.5/1.5/1.5
WEB DESIGN FOR BUSINESS—BEGINNING
Recommended Preparation: CIM 174A or 174, and 271A
Develop World Wide Web pages. Discuss Internet and web concepts. Assess basic web marketing issues along with construction development and layout techniques. Use HTML (HyperText Markup Language) programming language to create a web page that includes techniques for formatting text, importing graphics, creating forms and tables, email, and dynamic links. Learn basic theories and techniques of page construction. Course may be offered by mediated mode of instruction.  R E 3

CIM 272B 1.5/1.5/1.5
WEB DESIGN FOR BUSINESS—ADVANCED
Recommended Preparation: CIM 272A
Advanced development of World Wide Web pages. Various programming languages and construction helpers will be examined including HTML, Java, PERL, and CGI (Common Gateway Interface) scripting. Different methods and techniques of web site interaction, including, but not limited to, forms, CGI backends, Java Applets and security will be discussed. Course may be offered by mediated mode of instruction.  R E 3

CIM 273 3/3/3
WEB MANAGEMENT
Recommended Preparation: CIM 271A and 272A
Learn how to manage or administer a business web presence and how to choose the service provider and services necessary to insure security, password protection, Intranet restrictions and commerce. Examine methods for planning and developing web structures that include the use of forms, commercial service providers, corporate Intranet, uploading and downloading of database information through CGI, site updates, and solicitation of feedback or interaction.
R E 3

CIM 274A 1.5/1.5/1.5
WEB DIGITAL IMAGERY: PHOTOSHOP—BEGINNING
Fundamentals of digital image processing, retouching, and painting as used on the web in business. Includes overview of image design process, from digitizing images to outputting them to the Web.
R E 3

CIM 274B 1.5/1.5/1.5
WEB DIGITAL IMAGERY: PHOTOSHOP—ADVANCED
Recommended Preparation: CIM 274A
Advanced web digital image processing, retouching, painting, and simple animation. Includes overview of image elements of web design, from the manipulating of digitized images to outputting them to the web.
R E 3

CIM 275 1.5/1.5/1.5
WEB MARKETING/POSITIONING
Examines the intricacies of the business side of building a web presence, from project life cycle to client management. Networked computers and supporting database technologies, the client-server model of web computing, site architecture, communication strategies, promotion and measurement of web responses will be studied.
R E 3

CIM 276 1.5/1.5/1.5
WEB DATABASE MANAGEMENT
Recommended Preparation: CIM 271B
Focuses on creating and managing database-driven web sites using CGI and Perl languages and web application development tools. Interactive, dynamic web pages will be created that can activate server-based databases, query, populate form elements and validate data.
R E 3

CIM 277 1.5/1.5/1.5
INTRODUCTION TO E-COMMERCE
Provides a balanced examination of the business and technology elements of e-commerce. Focuses on gaining the knowledge and skills required to plan, develop, and implement an e-business. Topics include e-commerce and its infrastructure; traditional and electronic payment systems; marketing, sales and promotion; security threats and countermeasures; financial, legal and international issues; order fulfillment, purchasing and support activities; e-commerce software; designing an e-business Web site map; and business plans for e-commerce implementation.  R E 3

CIM 278A 1.5/1.5/1.5
DREAMWEAVER—BEGINNING
An introduction to creating, publishing and testing documents on a Web server. Course will cover Internet concepts, Web site management, linking, FTP, basic HTML, typography, tables, page layout, tracing elements, layers, and frames. Requires no previous Web development experience.
R E 3

CIM 278B 1.5/1.5/1.5
DREAMWEAVER—ADVANCED
Recommended Preparation: CIM 278A
An advanced course in Dreamweaver. Includes rollovers, flash buttons and text, navigation bars, cascading style sheets, forms, behaviors, plug-ins, templates, and the more advanced HTML, XML and DHTML supported functions.
R E 3

CIM 279 1.5/1.5/1.5
INTERNET AND INTRANET SECURITY
Recommended Preparation: CIM 277
Provides introduction for securing an Internet and an enterprise-wide Intranet utilizing a range of different technologies to protect an organization’s information from attacks, maintain authentication, prevent eavesdropping, retain integrity of information, and select a firewall and firewall topology.
R E 3

CIM 280 1.5/1.5/0
VIRTUAL REALITY IN BUSINESS
Introduces the concepts of 3D interactive, real-time, visual simulation or virtual reality (VR) and how it is used in business. Examines all aspects of the construction of VR—3D modeling, multimedia, graphic representation, digital photography, digital sound, video fly-ins, animation, path animation, Virtual Reality Modeling Language (VRML)—through web and simulation viewers. Interacts with the hardware and software necessary to run an interactive 3D visual simulation in real-time. Discusses many elements of high-end, graphics-based computers, the PC solution, force feedback, immersion headsets, a cave, and other peripherals used in VR solutions.
R E 3
CIM 290

**INTERNSHIP**

Corequisite: CWE 168/169

Designed to provide a realistic training environment in which the student will refine skills. This will include technological, procedural, decision-making, and interpersonal experiences. Career goals, analysis, and application, interviewing, and resume writing will be emphasized. To be taken in the final semester of program.

CIM 291A

**MCSE NETWORK AND OS ESSENTIALS**

First course in MCSE Certified Exam prep series. An intro to networking for those without a networking background. Covers Windows Network & OS Essentials. Examines the concepts of data communications, computer networking, and connectivity. Focuses on the Open System Interconnection (OSI) reference model, communication protocols and standards, data translation and transmission, network structures, and communication protocol implementations. Course includes hands-on experience.  

Corequisite: CWE 168/169  

Recommended Preparation: CIM 291B

Covers administering Windows Professional and Server operating systems through simulations, practice tests, and feedback.  

RE 3

CIM 291E

**MCSE CERTIFICATION EXAM PREP IV**

Recommended Preparation: CIM 291B and 291C

Covers Designing a Windows Network Infrastructure preparation through simulations, practice tests, and feedback.  

RE 3

CIM 291F

**MCSE CERTIFICATION EXAM PREP V**

Recommended Preparation: CIM 291B

Covers SQL Server 7.0 Administration preparation through simulations, practice tests, and feedback.  

RE 3

CIM 291G

**MCSE CERTIFICATION EXAM PREP VI**

Recommended Preparation: CIM 291B

Covers Exchange Server 5.5 preparation through simulations, practice tests, and feedback.  

RE 3

CMT 215

**ELECTRONICS FOR COMPUTER TECHNOLOGISTS**

Electronics summary covering the basics of electronics terminology, components, circuits, waveforms, equipment, assembly techniques, and troubleshooting which are relevant for computer technologists. Includes both analog and digital circuit fundamentals, plus discrete and integrated circuits related to computer technology and associated hardware. The emphasis is on basic concepts without extensive numerical analysis and calculations. (Formerly EST 215)

CMT 220

**COMPUTER MAINTENANCE AND REPAIR**

Recommended Preparation: CIM 174A and 174B

Includes a computer overview and study of disk drives, memories, input/output, parts, modems, printers, monitors, audio/video cards, operating systems, and computer trouble-shooting. The laboratory portion of the course includes construction, setup, and test of Wintel PC’s. (Formerly EST 220).

CMT 225

**APPLIED COMPUTER TECHNOLOGY**

Prerequisite: CMT 220

Studies computer installation, trouble-shooting, and maintenance emphasizing hardware. Topics include operating systems and hardware interfacing for the PC-computer families including the interconnection of printers, modems, CDROMs, memory, sound and video cards, and other peripheral devices. Hands-on techniques including soldering and cable fabrication will be studied and performed in the laboratory portion of the course. (Formerly EST 225).

CMT 230

**APPLIED NETWORK TECHNOLOGY**

Prerequisite: CIM 225

Study of computer networks for technologists. Includes network wiring, connectors, repeaters, hubs, routers, bridges and their application to system specifications and their application to the OSI model and its protocols. Installation, troubleshooting, and maintenance of computer networks and network hardware are emphasized in the laboratory. (Formerly EST 230).

**Computer Science**

CS 1A

**INTRODUCTION TO COMPUTER SCIENCE**

Designed as a hands-on introduction to the field of computer science for students preparing to enter the field or who are looking for a general interest course in the field. Includes an overview of the history of computers, their hardware, and applications software. Emphasizes algorithm development using modern design methodologies and programming concepts up to and including looping algorithms. Programs implemented in a contemporary high-level language such as C++ or Java. Repeatable one time only when programming language changes.  

RE 1

CS 1B

**INTRODUCTION TO PROGRAMMING**

Recommended Preparation: CS 1A

A basic course in computer programming which covers the properties of modularity and applies a contemporary high level programming language, such as C, C++, or Java, to the solutions of a wide variety of problems relating to science and business. Emphasis is on development, debugging, and testing of programs that use a wide variety of simple and composite data types. These programs will use both non-recursive and recursive techniques in the solution of problems. Repeatable one time only when programming language changes.  

RE 1

CS 1C

**ADVANCED PROGRAMMING**

Recommended Preparation: CS 1B

Designed for computer science majors and interested professionals. Topics include lexical conventions, data types, classes, constructors, destructors, overloading, conversions, inheritance, exceptions, and I/O. Solutions will be implemented using a high-level language such as C++, or Java. Repeatable one time only when programming language changes.  

RE 1
CS 2B 3/3/6
DATA STRUCTURES
Recommended Preparation: CS 1B and 1C or CS 14 and 15
Covers basic concepts of data structures and related algorithms. The abstract data types of lists, stacks, queues, strings, binary and general trees, multidimensional and sparse arrays, and graphs will be discussed and implemented using a contemporary programming language. Recursion, searching, and sorting will also be examined.

CS 3A 3/3/6
COMPUTER ORGANIZATION AND MACHINE LANGUAGE
Recommended Preparation: Any one programming language course and MATH 253
An introductory course in computer organization with emphasis on machine-language programming. Concepts covered include finite precision arithmetic, floating point architecture, Boolean Algebra, computer systems organization, microprogramming, and conventional machine-language programming with the corresponding assembly language notation.

CS 3B 3/3/6
COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE
Recommended Preparation: CS 3A
This course further develops the concepts of computer organization begun in CS 3A with emphasis on assembly languages. The concepts covered include assembly languages, operating systems, and multilevel machines.

CS 4A 3/3/6
INTRODUCTION TO JAVA FOR COMPUTER SCIENCE
Recommended Preparation: CS 1B
Designed for Computer Science majors and interested professionals needing an introduction to developing Java Applications and Applets. Topics include classes, inheritance, exceptions, arrays, vectors, recursion, streams, the Abstract Windowing Tool Kit, and Swing Components.

CS 4B 3/3/6
ADVANCED TOPICS IN JAVA FOR COMPUTER SCIENCE
Recommended Preparation: CS 4A
Designed for Computer Science majors and interested professionals needing an introduction to the Java Core Class Libraries. Topics include the Swing Components, the Collections Framework, Multithreading, Servlets, JSP, RMI, JDBC, and software engineering concerns.

CS 12 3/3/6
FORTRAN PROGRAMMING
Recommended Preparation: MATH 253 and CS 1A
This course will develop skills in writing computer programs using the FORTRAN programming language. Structured problem-solving techniques will be employed in applying FORTRAN to a wide variety of problems related to science and business.

CS 14 3/3/6
C PROGRAMMING
Recommended Preparation: CS 1B or 3A
This course is designed for Computer Science majors and interested professionals needing an introduction to the C-programming language. Topics include lexical conventions, data types, control structures; functions, pointers, records, structures, I/O, and operating system interface.

CS 15 3/3/6
C++ PROGRAMMING
Recommended Preparation: CS 14
This course is designed for Computer Science majors and interested professionals needing an introduction to the C++ programming language. Topics include lexical conventions, data types, classes, constructors, destructors, overloading, conversions, inheritance, and I/O.

CS 18 3/3/6
ADA PROGRAMMING
Recommended Preparation: Any one programming language course
Designed for Computer Science majors and interested professionals needing an introduction to the ADA-programming language. Topics include lexical style, control structures, data types, exceptions, packages, and tasking.

CS 189 .5-4/.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course.

CWE 168 1-4/60-300/0
COOPERATIVE WORK EXPERIENCE
Corequisite: Concurrent enrollment in 7 units including CWE 168
Provides supervised work experience extending classroom-based occupation learning at an on-the-job learning station relating to the student’s occupational goal; employment related to major. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. One unit of credit awarded for each 75 hours of paid or 60 hours of volunteer employment, for successful completion of learning objectives, and for attendance at scheduled seminar sessions. A maximum of four units may be applied toward major requirements for certificate. R I

CWE 169 1-4/60-300/0
COOPERATIVE WORK EXPERIENCE
Corequisite: May not be enrolled in more than one other course
Provides supervised work experience extending classroom-based occupation learning at an on-the-job learning station relating to the student’s occupational goal. Student, instructor, and employer will cooperatively develop a minimum of three learning objectives. Students will attend classes one semester and work full-time the following semester and may not be enrolled in more than one other course during the semester of full-time employment. Students may not transfer from the Alternate Plan to Occupational or General Cooperative Work Experience without having completed 12 units between plans. The student may earn a maximum of 16 units of the Alternate Plan, Cooperative Work Experience in alternating semesters. R I

COS 400A 12/6/18
COMPREHENSIVE COSMETOLOGY I
This is the first course in a program designed to prepare the student for the State Board of Cosmetology Examination and success in a career as a cosmetologist. This is an open-entry/open-exit class with a required minimum number of combined lecture/lab hours per week. The program includes both classroom instruction and laboratory practice of the knowledge and skills required by the State Board as well as personal hygiene, grooming, salesmanship, public relations, and reception practices and techniques. The Cosmetology Act and Regulations are also studied. Twelve units are granted upon the successful completion of 400 classroom/labatory hours. The units earned for this course may not be applied toward the 60 units for graduation. R E
COS 400B  
COMPREHENSIVE COSMETOLOGY II  
Prerequisite: COS 400A. Hours: 400  
This course is a continuation of Cosmetology 400A. Twelve units are granted for the successful completion of 400 hours in class. A variable-unit course offered on an open-entry/open-exit basis. The units earned for this course may not be applied toward the 60 units for graduation. R E 3

COS 400C  
COMPREHENSIVE COSMETOLOGY III  
Prerequisite: COS 400B. Hours: 400  
This course is a continuation of Cosmetology 400B. Twelve units are granted for the successful completion of 400 hours in class. A variable-unit course offered on an open-entry/open-exit basis. The units earned for this course may not be applied toward the 60 units for graduation. R E 3

COS 400D  
COMPREHENSIVE COSMETOLOGY IV  
Prerequisite: COS 400C. Hours: 400  
This course is a continuation of Cosmetology 400C. Twelve units are granted for the successful completion of 400 hours in class. A variable-unit course offered on an open-entry/open-exit basis. The units earned for this course may not be applied toward the 60 units for graduation. R E 3

COS 420  
MANICURING  
Designed to exceed minimum California State Board of Cosmetology standards. The course covers a study of proper use of instruments, equipment, personal hygiene, sanitation common nail conditions, diseases, and the use of electrical appliances. Chemistry as it relates to the composition of cosmetic materials is also covered. Principles of salesmanship and skills in serving the public are emphasized. The Cosmetology Act and Regulations are studied. A variable-unit course offered on an open-entry/open-exit basis. Eleven units are granted upon the successful completion of 400 classroom/laboratory hours. The units earned for this course may not be applied toward the 60 units for graduation. R E 3

COS 440  
COMPLETIVE COSMETICIAN  
This 600 hour course is designed to prepare the student for the State licensing examination and success as a cosmetician/esthetician. An open-entry/open-exit class with a required minimum number of combined lecture/lab hours per week. Course includes both classroom instruction and laboratory practice. Successful completion of this course and successful completion of the State Licensing Examination will allow the graduate cosmetician to perform facials (manual and electrical), eyebrow arching and hair removal (other than by electrolysis), make-up artist, and skin care representative. The units earned for this course may not be applied toward the 60 units for graduation. R E 3

COS 209  
SPECIAL TOPICS  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

Cross Cultural Studies

COS 1  
MULTICULTURAL AMERICA: THE ONE AND THE MANY  
Examines the cultures of African Americans, Asian Americans, Chicanos/Latinos, and Native Americans. Focuses on the topics of racial/ethnic identity, family, religion, and traditions within each group, and how each group relates to the others and to the dominant American culture.  
3/3/0

COS 2  
MULTICULTURAL AMERICA: TURNING POINTS  
Examines the cultures of African Americans, Asian Americans, Chicanos/Latinos, and Native Americans. Focuses on the topics of gender, sexuality/sexual orientation, work and class, dreams and healing, and education within each group and how each group relates to the other and to the dominant American culture.  
3/3/0

COS 10  
MARGINS AND BORDER CROSSINGS  
Focuses on the experiences of those who negotiate cultural borders — boundaries of race, ethnicity, region, religion, gender, class, and sexuality/sexual orientation, and we will examine the borderlands between cultures and how people “manage” crossing those spaces. Readings will be taken from imaginative literature, and psychological, sociological, and biographical texts.  
3/3/0

COS 189  
SPECIAL TOPICS  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course.  
.5-4/.5-4/.5-9

Drafting Technology

DR 23  
ENGINEERING GRAPHICS AND DESCRIPTIVE GEOMETRY  
Recommended Preparation: DR 100 or one year of high school mechanical drafting.  
This course presents principles of communicating graphically using sketching and drafting of multiview projections, auxiliary views and working drawings, including dimensions. Descriptive geometry is used to obtain points, lines, planes, intersections and developments, and spatial relationships. A Computer Aided Drafting (CAD) system is used.  
3/1.5/4.5

DR 100  
FUNDAMENTALS OF MECHANICAL DRAFTING  
Develops basic drafting skills including the proper use of drafting instruments, lettering, geometric construction, multiview projection, sections, pictorial drawings, auxiliary views, and dimensioning.  
3/1.5/4.5

DR 101  
MECHANICAL DRAFTING  
Recommended Preparation: DR 100 or one year of high school mechanical drafting  
Develops the basic skills required to produce industrial quality assembly and detailed drawings including: first and second auxiliary views, shop practices, tolerancing, and further development of mechanical drawing skills.  
3/1.5/4.5

DR 120  
FUNDAMENTALS OF TECHNICAL ILLUSTRATION  
Recommended Preparation: DR 100  
An introduction to technical illustration, including oblique and isometric pictorial drawings and shading.
### Courses

**Economics**

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<td>PRINCIPLES (MICRO)</td>
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<td>ECON 2</td>
<td>PRINCIPLES (MACRO)</td>
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<td>WORLD POLITICAL ECONOMICS</td>
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<td>ECON 6</td>
<td>SCARCITY AND ENVIRONMENT</td>
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**Ecological Restoration**

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<td>ECOLOGICAL RESTORATION TECHNIQUES</td>
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<td>ECOL 202</td>
<td>ADVANCED ECOLOGICAL RESTORATION TECHNIQUES</td>
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**SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
ET 101
SURVEY OF ELECTRONICS
3/3/0
Introduction to electronics for non-majors or those exploring possible interest in the field. Covers the basics of electronics.

ET 110
LINEAR INTEGRATED CIRCUITS
4/3/3
Recommended Preparation: ET 135
Principles and applications of electronic circuits which use linear integrated circuits. Includes op amp principles and circuits, active filters, signal generators, oscillators, timers, power supply circuits, and data-conversion circuits. Laboratory experiments emphasize testing, troubleshooting and application of circuits, and concepts studied.

ET 114
DIGITAL ELECTRONIC CIRCUITS
4/3/3
Recommended Preparation: ET 135
Fundamentals of logic and circuits for digital electronics. Includes binary arithmetic, Boolean algebra, logic gates, digital technologies, memory circuits, A/D and D/A converters, addition/subtraction circuits, shift registers, counters, clock and timing circuits, and multiplexers/demultiplexers. Laboratory experiments emphasize testing and troubleshooting of common circuits.

ET 118
ELECTRONIC COMMUNICATION SYSTEMS
4/3/3
Recommended Preparation: ET 114 and 135
Fundamentals of modern electronic communication systems, including radio, data, digital, and opto-electronic systems. Study of noise analysis, modulation methods, networks, transmission lines, antennas, and other important system components and considerations. Includes analytical principles and equations as well as practical applications and troubleshooting.

ET 120
INTRODUCTION TO COMPUTERS
4/3/3
Recommended Preparation: CS 1B and ET 114
An introduction to the electronic circuit and hardware analysis of the microprocessor and its fundamental machine and assembly language. Hands-on experience with microprocessors involving circuit operation and diagnostic troubleshooting.

ET 133
DC AND AC FUNDAMENTALS
4/3/3
Fundamentals of DC and AC electronic components and circuits. Includes basic DC and AC terms, resistors, capacitors, inductors, Ohm’s law, series and parallel circuits, circuit theorems, magnetism, transformers, time constants, reactance, and resonance. Laboratory experiments utilize common test equipment such as the digital multimeter, power supply, function generator, and oscilloscope.

ET 135
SEMICONDUCTOR DEVICES AND CIRCUITS
4/3/3
Recommended Preparation: ET 133
Study of common discrete semiconductors and related circuits. Includes diodes, bipolar junction transistors, field effect transistors, thyristors, and optoelectronic devices. Laboratory experiments emphasize testing and troubleshooting of circuits containing the devices studied.

ET 189
SPECIAL TOPICS
1/0/.5-4/.5-4/.5-9
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

ET 200
PREPARATION FOR TECHNICAL CAREERS
1/0
Survey of important principles for obtaining technical employment and performing effectively in a technical career. Includes introduction to technical careers, personal communication skills, group dynamics, workplace ethics and behavior, problem-solving and troubleshooting, and includes practical topics and situations and relevant concepts/solutions. Designed for those simultaneously taking vocational certificate courses in preparation for a technical career.

EMT 205
EMERGENCY MEDICAL TECHNICIAN PROCEDURES
6.5/6/1.5
A fundamental theory and skills course in emergency medical care and basic life support skills. Emphasis is placed on development of skills in recognition of injuries, the use of medical emergency equipment and supplies, and development of competency in performance of support measures. Supervised observation included. R E 3

EMT 210
REFRESHER COURSE FOR EMERGENCY MEDICAL CARE
1/1/.75
Limitation: California approved EMT-B program. Must have current certification or be within the "grace" period.
A refresher course to meet the state EMT-B recertification requirement. Review of life support measures, use of emergency medical equipment and supplies, and cardiopulmonary resuscitation. R E 3

EMT 218
INTRODUCTION TO ADVANCED PREHOSPITAL CARE
3/3/0
Recommended Preparation: Current EMT-B Certification, BIO 113
This course is designed to provide advanced patient evaluation techniques, basic pharmacology, and roles and responsibilities of team members for EMT’s who transport advanced life support patients.

ENGR 31
STATICS
3/0
Prerequisite: PHYS 4A
Statics is the study of force systems under equilibrium conditions. Force systems are analyzed for trusses, frames, and machines which are subject to concentrated, distributed, and frictional forces. Graphical and mathematical methods of analysis are used, including virtual-work.

ENGR 33
ELECTRIC CIRCUIT ANALYSIS
4/3/3
Prerequisite: PHYS 4B
Corequisite: MATH 24
An introduction to the analysis of passive electric circuits using a variety of methods including Ohm’s law, Kirchhoff’s laws, superposition, nodal and mesh analysis, Thévenin’s and Norton’s Theorems, phasors, and complex numbers. The techniques are used to find the source-free response, step response, and steady state response. Laboratory experiments accompany the topics studied and emphasize analysis and testing of common circuits.
ENGR 35
INTRODUCTION TO DIGITAL SYSTEMS 4/3/3
Prerequisite: CS 1B
Introduction to digital systems and electronics; includes digital number systems, logic, gates, and Boolean algebra and memory, analysis and design of combinational and sequential devices and circuits. Laboratory portion of course includes exercises, experiments, and projects relevant to the topics being studied.

ENG 1A
PRINCIPLES OF COMPOSITION I 3/3/0
Prerequisite: Satisfactory score on the English Placement Examination or completion of ENG 200 with a grade of "C" or better
A course in expository writing. Instruction focuses on how to select and narrow a topic, frame a thesis statement, and organize the content into a logical, coherent composition. Original essays, and organize the content into a logical, coherent composition. Assignments are derived from themes and works in various disciplines and cultures.

ENG 1B
PRINCIPLES OF COMPOSITION II 3/3/0
Prerequisite: ENG 1A with a grade of "C" or better
Provides instruction in critical thinking and in writing expository and persuasive essays and documented papers totaling a minimum of 8,000 words. Instruction focuses on the development of logical reasoning, on analytical and argumentative writing skills, and on research strategies. Assignments are derived from themes and works in various disciplines and cultures.

ENG 3
INTRODUCTION TO CREATIVE WRITING 3/3/0
Prerequisite: Eligibility for enrollment or completion of ENG 1A
A course emphasizing the writing of prose, poetry, and drama stressing critical judgment of these forms. Course may be offered by mediated mode of instruction.

ENG 4
FICTION FUNDAMENTALS 3/3/0
Prerequisite: Eligibility for enrollment or completion of ENG 1A
A course teaching the fundamentals of fiction. Story telling or narrative art. This course may be repeated once. R E 1

ENG 5
POETRY FUNDAMENTALS 3/3/0
Prerequisite: Eligibility for enrollment or completion of ENG 1A
A course designed to explore the traditional and modern forms of poetry so the student will write poems in each of these forms and understand the nature and use of figurative language. This course may be repeated once. R E 1

ENG 7
CREATIVE WRITING: SCRIPTWRITING 3/3/0
Prerequisite: Eligibility for ENG 1A
Recommended Preparation: ENG 3, 4, or 104
Focuses on the special requirements of dramatic writing for television, film, radio, and stage.

ENG 15A
SURVEY OF AMERICAN LITERATURE: 1620-1860 3/3/0
Recommended Preparation: Eligibility for ENG 1A
A course emphasizing major ideas, authors, and forms in American literature during the 17th, 18th, and early 19th centuries.

ENG 15B
SURVEY OF AMERICAN LITERATURE: 1860-CONTemporary 3/3/0
Recommended Preparation: Eligibility for ENG 1A
A course emphasizing major ideas, authors, and forms from the late 19th century to the present.

ENG 17A
SURVEY OF ENGLISH LITERATURE: BEDWULF TO ROMANTIC MOVEMENT 3/3/0
Recommended Preparation: Eligibility for ENG 1A
Covers 9th century to 1700: Anglo-Saxon, Medieval, Tudor, Renaissance, 17th century and Neoclassical literature. Literature will be discussed in relation to social and political backgrounds.

ENG 17B
SURVEY OF ENGLISH LITERATURE: ROMANTIC MOVEMENT TO THE PRESENT 3/3/0
Recommended Preparation: Eligibility for ENG 1A
Covers 1796 to present. Romantic, Victorian, Modern, and Post-Modern literature will be discussed in relation to social and political backgrounds.

ENG 18
SHAKESPEARE: THE TRAGEDIES 3/3/0
Recommended Preparation: Eligibility for ENG 1A
An in-depth study of representative plays and criticism, illustrating Shakespeare’s mastery of poetic and theatrical techniques and psychological portraiture within the framework of the genres of English Renaissance tragedy.

ENG 19
SHAKESPEARE: THE COMEDIES 3/3/0
Recommended Preparation: Eligibility for ENG 1A
A close study of the nature of Shakespeare’s comedies, illustrating the variety of Shakespearean comedy from farce to fantasy to the serious study of social problems.

ENG 20
SHAKESPEARE: THE HISTORIES 3/3/0
Recommended Preparation: Eligibility for ENG 1A
A study of Shakespeare’s history plays set against their relevant historical backgrounds, together with an exploration of Shakespeare’s purpose in converting history into drama.

ENG 21A
WORLD LITERATURE: ANCIENT TO 17th CENTURY 3/3/0
Recommended Preparation: Eligibility for ENG 1A
A survey of major authors and literary forms from antiquity to 17th century from world cultures.

ENG 21B
WORLD LITERATURE: 17TH CENTURY TO MODERN PERIOD 3/3/0
Recommended Preparation: Eligibility for ENG 1A
A survey of major authors and literary forms from the 17th century to the modern period from world cultures.
### Courses

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*Recommended Preparation: Eligibility for ENG 1A*

*Recommended Preparation: Eligibility for English 1A*

*Recommended Preparation: Eligibility for ENG 1A*

*Recommended Preparation: Eligibility for ENG 1A*

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*Recommended Preparation: Eligibility for ENG 1A*
ENG 50
WOMEN AUTHORS
Recommended Preparation: Eligibility for ENG 1A
Examines selected works of literature by women writers of different historical periods in both Western and non-Western cultures. Compares the varied responses of those authors to the cultural definitions of what it is to be a woman and to attitudes toward major life transitions such as marriage, childbearing, education, and a public career. Focuses on the inner search and on the conflicts and crises that often lead to transformation.

ENG 52
THE FILM AS LITERATURE
Recommended Preparation: Eligibility for ENG 1A
An examination of foreign and domestic film as a literary art form. The course focuses on the analysis of film techniques which convey standard literary conventions to an audience.

ENG 54
CONTEMPORARY LITERATURE
Recommended Preparation: Eligibility for ENG 1A
Designed to acquaint the student with the most recently identifiable trends in literature, both poetry and prose.

ENG 65
BUILDING ENGLISH VOCABULARY THROUGH GREEK AND LATIN ROOTS
Courses teaches the formation and use of English words from Greek and Latin derivatives. It is intended to be particularly useful for new college-level vocabulary. The course does not require any prior knowledge of Greek or Latin. Also listed as CLSS 5. Credit given in either area, not both.

ENG 104
WRITING SHORT STORIES
Recommended Preparation: Eligibility for ENG 1A; ENG 3
An intensive examination of the theory and practice of the short story with an emphasis on contemporary publishing standards. This course may be repeated once. R E 1

ENG 105
HAiku, SonNet, Free Verse, and Other Poetic Forms
Recommended Preparation: Eligibility for ENG 1A; ENG 3
A course emphasizing student writing in poetic forms. The course, which includes lectures and discussions on the theory and practice of poetry, focuses primarily on the discussion and evaluation of student work. This course is designed for writers seeking practice and guidance in writing poetry. This course may be repeated once. R E 1

ENG 107
WRITING THE FICTION AND/OR NONFICTION BOOK
Recommended Preparation: Eligibility for ENG 1A or 3
Designed to assist students in the planning, development, and marketing of book-length fiction and non-fiction. R E 1

ENG 117
ADVANCED SCRIPTWRITING
Prerequisite: ENG 7
Recommended Preparation: ENG 3 or 104
Focuses on the theory and practice of the screenplay with an emphasis on contemporary production standards. Students enrolled in this course should be presently working on a dramatic script. R E 2

ENG 122
DETECTIVE AND MYSTERY FICTION
Recommended Preparation: Eligibility for ENG 1A
Explores the development and status of detective and mystery fiction. Emphasizes the historical, social and literary origins, and current forms of these genres.

ENG 142
CHILDREN’S LITERATURE
Recommended Preparation: Eligibility for ENG 1A
Covers basic information about children's cognitive development, the history of children's literature, types of literature available for children from preschool to junior high age, major authors and illustrators of children's books. Course focuses on the literary heritage of children's books from classic to modern. Literary analysis from a variety of critical perspectives, research into current issues in children's books. (Formerly ENG 42)

ENG 160
LITERARY MAGAZINE
Recommended Preparation: ENG 1A or 3
An introduction and practice in the distinctive elements of literary magazine production. It provides firsthand experience in the various phases of editing and publishing a small press publishing literary magazine. R E 3

ENG 170
REASONING AND COLLEGE READING
Prerequisite: ENG 1A with a "C" or better
For students from all academic disciplines who seek to develop logical thinking, critical reading, and argumentative writing skills. Emphasis is on understanding implied meaning and logic and on developing college-level skills in analytical reading and writing.

ENG 180
SPEED READING AND COMPREHENSION TRAINING
Designed to improve critical awareness, to double or triple the students' initial reading rate(s) while maintaining comprehension, and to expand college-level vocabulary. Reading flexibility is emphasized with attention to learning how to rapid read, skim, scan, study read, and read critically.

ENG 189
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

ENG 200
FUNDAMENTALS OF COMPOSITION
Prerequisite: Satisfactory score on the English Placement Examination or completion of ENG 201, 230, or comparable course with a grade of "C" or better
Focuses on writing the expository paragraph and multi-paragraph composition through a process approach. Students will learn how to construct a topic sentence or thesis statement with a controlling idea and provide support for that idea in standard English.

ENG 211
ENGLISH MECHANICS AND GRAMMAR
This course covers the mechanics of written English, including the major principles of punctuation, capitalization, grammar, possessives, usage, and style, and teaches students how to write clear, correct, and effective sentences and paragraphs. Some previous experience in reading and writing English is needed. This is not a composition course.

ENG 220
READING SKILLS FOR COLLEGE
Corequisite: ENG 221
A course designed to prepare students for college-level work by bringing their reading abilities and study skills to college proficiency. Emphasis is on individual help and careful progress to develop reading confidence and ease. Course may be offered by mediated mode of instruction.

ENG 221
READING LABORATORY
Corequisite: ENG 220
Designed to complement the reading skills taught in ENG 220, Reading Skills for College. This 16 week lab includes work in reading comprehension, reading rate, vocabulary, study skills, and writing. R E 1
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### ADVANCED ACADEMIC SKILLS

**ESL 89**
**ADVANCED ACADEMIC SKILLS**
Prerequisite: ESL 280 or 295
An advanced course designed to improve non-native speakers' reading comprehension and written communication skills necessary for college-level work. Students will summarize articles, take notes on lectures from a variety of academic disciplines, master specialized vocabulary, and discuss issues. They will develop fluency and confidence by writing and rewriting paragraphs, and short essays. This is not an open-entry/open-exit course. It may be offered for zero units. Completion of this course with a "C" qualifies a student to enroll in ENG 200.

**ESL 225**
**ADVANCED VOCABULARY SKILLS**
Recommended Preparation: ESL 380D
This advanced vocabulary class is designed to help non-native speakers of English expand and acquire a college-level vocabulary and idiomatic expressions necessary for academic and vocational courses. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course may be repeated once and is not open-entry/open-exit. R E 1

**ESL 235**
**ADVANCED LISTENING AND NOTE-TAKING SKILLS**
Recommended Preparation: ESL 380D
An advanced listening skills course designed to prepare foreign language speakers for mainstream college courses. Emphasis is on note-taking, outlining, comprehension of spoken information, questioning, and paraphrasing techniques necessary for class participation. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course may be repeated once and is not open-entry/open-exit. R E 1

**ESL 245A**
**ADVANCED GRAMMAR REVIEW I**
Corequisite: ESL 999
Recommended Preparation: ESL 380D
ESL 245A is the first half of an advanced, rapidly-paced grammar class for non-native speakers of English who have completed at least four semesters of ESL or equivalent. It is recommended for students progressing into ENG 200 and ENG 1A. Emphasis is on structures particularly difficult for non-native speakers such as the verb system, prepositions, gerunds, and infinitives. Writing of original sentences based on structures is stressed. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course may be repeated twice and is not open-entry/open-exit. R E 2

**ESL 245B**
**ADVANCED GRAMMAR REVIEW II**
Corequisite: ESL 999
Recommended Preparation: ESL 380D, 245A
ESL 245B is the second half of an advanced, rapidly-paced grammar class for non-native speakers of English who have completed at least four semesters of ESL or equivalent. Recommended for students progressing into ENG 200 and ENG 1A. Emphasis is on structures particularly difficult for non-native speakers such as the verb system, prepositions, gerunds, infinitives, and if-clauses. Writing of original sentences based on structures is stressed. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course may be repeated twice and is not open-entry/open-exit and may be repeated once. R E 1

**ESL 255**
**ADVANCED WRITING FOR WORK**
Recommended Preparation: ESL 380D or 395B
ESL Advanced Writing for Work is designed to improve non-native speakers' reading comprehension and written communication skills necessary for college-level work using "real world" copies. Students will regularly summarize examples of American business and technical communication. In addition, they will design, write, and analyze different communication examples of memoranda, letters, descriptions, instructions, and other reports focusing on impact, accuracy, and clarity in relation to audience and purpose. Students will also review sentence structure and grammar as needed. This course is not open-entry/open-exit. It may be offered for zero units. The unit version of this course may be repeated twice. R E 2

**ESL 265**
**ADVANCED PRONUNCIATION**
Corequisite: ESL 999
Recommended Preparation: ESL 365B
An advanced-level pronunciation course which completes the English pronunciation course sequence. This course is especially appropriate for business people and other professionals who wish to improve their accents. Course continues to develop pronunciation accuracy, auditory discrimination, conversation techniques, selective listening skills, and appropriateness while decreasing native-language interference. Stress distinctions to communicate intent and meaning along with intonation patterns will be fully developed. This course may be offered for zero units on an open-entry/open-exit basis. R E 3

**ESL 275**
**ADVANCED CONVERSATION**
Recommended Preparation: ESL 380D or 375B
This course completes the ESL conversation series and allows the ESL student to gain mastery of both formal and informal conversation in American English within a variety of social contexts: social, work, and school situations. Topics may be of a controversial nature. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course may be repeated twice and is not open-entry/open-exit. R E 2

**ESL 280**
**ADVANCED MULTISKILLS**
Recommended Preparation: ESL 380D
This course incorporates the academic skills necessary for the advanced ESL student to progress. This course is designed to complete the instruction of English grammar. It will continue to develop reading skills and focus on writing skills at the sentence and paragraph level. Informal conversation will be incorporated into the body of the course. Listening comprehension will be further developed preparing the student to enter mainstream courses and/or the workforce. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may be repeated once. R E 1
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<td></td>
<td>Introduction to Financial Planning</td>
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**ESL 285 ADVANCED ESL READING: AMERICAN LITERATURE**

Recommended Preparation: ESL 280 or 295

Introduces advanced ESL students to techniques for understanding and appreciating excerpts, and complete works of fiction, drama, and poetry. Selections will be from American writers. Students will write (summaries, journal entries, and character analyses) and take part in oral activities (discussions, dramatic activities, and presentations) in response to specific works studied. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may be repeated twice.  R E 2

**ESL 289 SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course.  R E 3

**ESL 295 ADVANCED READING AND WRITING**

Prerequisite: ESL 380D or 395B
Corequisite: ESL 888

A course designed for the non-native speaker of English focusing on advanced-level reading and writing skills. Emphasis in writing is on gaining control of complex sentence patterns and standard rhetorical patterns. Emphasis in reading is on narrative, creative, and expository text. Reading comprehension and reading rate are also stressed. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit and may be repeated twice.  R E 2

**ESL 365A BEGINNING PRONUNCIATION**

Corequisite: ESL 999

Designed to enable students to recognize and reproduce the sounds and intonation patterns of American English. Through intensive pronunciation drills, listening activities, free speaking, and reading of selected simplified passages, students will develop confidence in speaking situations. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course may be repeated three times and is not open-entry/open-exit. The units earned for this course may not be applied toward the 60 units for graduation.  R E 3

**ESL 365B INTERMEDIATE PRONUNCIATION**

Corequisite: ESL 999

Recommended Preparation: ESL 365A

An intermediate-level ESL pronunciation course designed to enable students to recognize and produce the sounds and intonation patterns of American English. Through pronunciation drills based on more complex readings, in-class conversation, and listening activities (companions, news stories and dialogues) students develop self-confidence in all speaking situations. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course may be repeated three times and is not open-entry/open-exit. The units earned for this course may not be applied toward the 60 units for graduation.  R E 3

**ESL 375A BEGINNING CONVERSATION**

Corequisite: ESL 999

Recommended Preparation: ESL 380B

This course initiates the ESL conversation series with emphasis on everyday conversation. Topics will encompass basic oral/aural student needs for survival. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit. A combination of ESL 375A, 375B, and 275 may be taken a maximum of four times for credit. The units earned for this course may not be applied toward the 60 units for graduation.  R A 3

**ESL 375B INTERMEDIATE CONVERSATION**

Recommended Preparation: ESL 365A or 380B

This course is the second in the ESL conversation series with emphasis on both formal and informal expression and conversation in American English. Topics and vocabulary are expanded. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit. A combination of ESL 375A, 375B, and 275 may be taken a maximum of four times for credit. The units earned for this course may not be applied toward the 60 units for graduation.  R A 3
ESL 380D 0 or 3/6/0
INTERMEDIATE MULTISKILLS II
Recommended Preparation: ESL 380C
This course continues the refinement of language skills: reading, writing, speaking, and listening at an upper intermediate level. Vocabulary expansion, idiomatic expression, and free conversation will be put in the context of grammatical structures. Content focuses on cultural topics pertaining to American life along with a U.S. civics component. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit. A combination of ESL 380C and ESL 380D may be taken a maximum of four times. The units earned for this course may not be applied toward the 60 units for graduation. R E 3

ESL 395A 0 or 3/3/0
INTERMEDIATE READING AND WRITING I
Prerequisite: ESL 380B
Designed for the non-native speaker of English focusing on intermediate-level reading and writing skills. Emphasis in writing is on gaining control of basic sentence patterns, basic conventions of standard written English, and basic paragraph forms. Emphasis in reading is on literal comprehension. Expansion of vocabulary is emphasized. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit, and may be repeated once. The units earned for this course may not be applied toward the 60 units for graduation. R E 1

ESL 395B 0 or 3/3/0
INTERMEDIATE READING AND WRITING II
Prerequisite: ESL 380C or 385A
Corequisite: ESL 888
A course designed for the non-native speaker of English focusing on intermediate-level reading and writing skills. Emphasis in writing is on gaining control of intermediate-level sentence patterns, conventions of standard written English, and paragraph forms. Emphasis in reading is on narrative, creative, and expository texts. Reading comprehension and reading rate are also stressed. This course may be offered for zero units on an open-entry/open-exit basis. The unit version of this course is not open-entry/open-exit, and may be repeated once. The units earned for this course may not be applied toward the 60 units for graduation. R E 1

ESL 888 0 or .5/0/1
ESL SKILLS LAB
Corequisite: ESL 295, 395B
Requires concurrent enrollment in designated ESL reading courses. Enhances and provides practice in skills learned in ESL reading and writing courses. Minimum one hour per week required. R E 3

ESL 999 0 or .25/1/0
ESL LABORATORY
Requires concurrent enrollment in designated ESL courses. Enhances and provides practice in skills learned in ESL courses. Minimum one hour per week required. R E 3

Environmental Studies

ENV 1 3/3/0
INTRODUCTION TO ENVIRONMENTAL STUDIES
An introduction to environmental studies that includes an overview of human activities within the global ecosystem. Examines population growth, energy, use of food supply, urbanization, biodiversity, and climate change, and search-es for solutions while exploring future options.

ENV 6 3/3/0
SCARCITY AND ENVIRONMENT
Prerequisite: MATH 251
Recommended Preparation: ENV 1
An introduction to environmental economics. Focuses on market failure as a cause of inefficient resource use, depletion, and environmental pollution. Addresses the impact of ecological problems on the distribution of wealth in three areas: within a nation, internationally, and intergenerationally. Examines public policy in the environmental area. Also listed as ECON 6. Credit given in either area, not both.

ENV 18 4/3/3
INTRODUCTION TO ECOLOGY
Examines the relationships among organisms (including humans) and their environment, with an emphasis upon understanding the causal mechanisms underlying each phenomenon. Learning activities will include formal laboratory investigations, examination of live animals and plants, and short field trips to surrounding areas. Also listed as BIO 18. Credit given in either area, not both.

ENV 19 4/3/3
MARINE BIOLOGY
Recommended Preparation: Previous college-level biology course
Study of the description, distribution, and natural history of marine organisms. Marine life of Southern California will be studied with an emphasis on ecology and adaptations. Field trips may be required to fulfill the objectives of this course. Also listed as BIO 19. Credit to be given in either area, not both.

ENV 23 4/3/3
ENVIRONMENTAL GEOLOGY
Principles of sound planning for the human use of the solid earth. Includes environmental studies of earthquakes, mineral and energy resources, floods, beach erosion, landslides, etc. Field trips may be required to fulfill the objectives of this course. Also listed as GEOL 23. Credit to be given in either area, not both.

ENV 24 3/2/3
NATURAL HISTORY OF CALIFORNIA
Through lecture and lab, acquaints the non-biology major with the basic physical and biological aspects of the coastal, valley, mountain, and desert environments of California. Field trips may be required to fulfill the objectives of this course. Also listed as BIO 24. Credit to be given in either area, not both.

ENV 25 3/3/0
ENVIRONMENTAL HAZARDS TO HEALTH
An introductory course presenting alternative energy policies and technologies. Specific technologies such as geothermal, solar thermal, photovoltaic, and wind power will be discussed. Problems of control (automation), costs, pollution, and potential health hazards will be presented from both political and technical perspectives.

ENV 102 2/1/2
AN ECOLOGICAL APPROACH TO FLYFISHING
A course designed to acquaint the student with relevant aquatic ecology, entomology, fish biology, conservation strategies, equipment, casting, and other physical skills required for effective flyfishing technique and practice. Also listed as PE 102. Credit to be given in either area, not both.

ENV 105 2/1/2
ENVIRONMENTAL STUDIES INTERNSHIP
Corequisite: CWE 168/169
Recommended Preparation: ENV 1
An opportunity for an in-depth experience with an environmental agency, local municipality, private agency, or student initiated project. R E 3
### Course Listing

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<td>Natural Resource Conservation</td>
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<td>ENV</td>
<td>120</td>
<td>Chemistry of Everyday Life</td>
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<td>ENV</td>
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### Textile Courses

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<td>FASH 110</td>
<td>Contemporary Clothing Construction</td>
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<td>FASH 111</td>
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<td>FASH 112</td>
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<td>FASH 113</td>
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<td>FASH 115</td>
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<td>FASH 120</td>
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<td>FASH 124</td>
<td>Wearable Art</td>
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### Additional Information

- **Fashion**
  - Recommended Preparation: FASH 100
  - This course includes choosing correct fabrics and patterns, constructing garments using basic sewing techniques, and choosing and operating a sewing machine. Designed for students with little or no sewing skill. Combination of the following courses may be taken a maximum of four times: FASH 100, 111, 112, 113. R A 3

- **Textiles**
  - Fabric selection and care considering fibers, yarns, weaves, finishes, and color. Emphasis is on properties of fibers as related to their end use and consumer understanding of fabric performance. Also listed as BUS 31. Credit to be given in either area, not both.

- **Environmental Conservation**
  - Provides a comprehensive overview of natural resources and conservation issues. Topics discussed include the history of conservation including national parks and wildlife conservation, human history in relation to natural resource utilization, and contemporary natural resource use. The course will investigate contemporary conservation solutions. Also listed as BIO 106. Credit to be given in either area, not both.

- **Chemistry of Everyday Life**
  - A look at issues of contemporary interest to the layman from a chemical point of view. The chemistry employed is limited to that necessary for a coherent treatment of selected topics such as foods and food additives, vitamins, drugs, household chemicals, polymers, energy production, nuclear power and chemical pollution. Also listed as CHEM 120. Credit to be given in either area, not both.

- **Special Topics**
  - The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
FASH 130
FLAT PATTERN DESIGN
3/2/3
Recommended Preparation: FASH 100 or basic sewing skills
Creative fashion and costume design achieved through flat pattern techniques. Use of the basic sloper and construction of half-scale garments. R E 1
FASH 132
DRAPING FASHION DESIGNS
3/2/2
Recommended Preparation: FASH 100 or basic sewing skills
Experience in creative apparel design using fabric-draping techniques on a dress form with application to the individual. R E 3
FASH 136
APPAREL DESIGN
3/2/2
Recommended Preparation: FASH 130
Designed to teach the basic skills of garment design. Included in this program are the garment sketch, elements of design, and the design and construction of the garment. R E 3
FASH 140
FASHION IMAGE
3/3/0
Covers apparel selection based upon the application of color, line, and design theories. Studies the principles of dressing for a career and other lifestyles. Presents methods of projecting appropriate professional images. Offers concepts of wardrobe planning, including cultural influences, consumer needs in clothing, buying guides, and care and maintenance of the wardrobe.
FASH 143
FASHION BUYING AND MERCHANDISING
3/3/0
Study the principles and techniques of merchandising especially pertinent to the fashion industry. It will include the buying function, methods of merchandising fashion, and merchandise control. Also listed as BUS 143. Credit to be given in either area, not both.
FASH 144
FASHION TRENDS AND CULTURAL COSTUMES
3/3/0
This course examines the forces which influence the fashion trends of today by studying the clothing, textiles, arts, cultures of the past. It covers historic, artistic, socio-economic, geographic, religious, political, and cultural influences on clothing design, textiles, and fashion from ancient to modern civilization and includes cultures from throughout the world.
FASH 145
INTERNSHIP
1/1/0
Corequisite: CWE 168/169
Supervised and educationally-directed internship. Weekly lectures will relate on-the-job experiences with academic program. To be taken in the final semester of program. Also listed as BUS 145. Credit to be given in either area, not both.
FASH 147
THE FASHION SHOW
3/2/2
Emphasis is on student-produced fashion show. The course will provide fashion office training in fashion promotion, retail sales, advertising, and public relations. Also listed as BUS 147. Credit to be given in either area, not both. R E 3
FASH 148
FASHION DISPLAY
1/1/1
This course trains the student in visual merchandising as both an art form and a selling technique in fashion retailing. The use of color, outfit coordination, store layout, fixtures, lighting, signing, composition, mannequins, and props will be studied. Also listed as BUS 148. Credit to be given in either area, not both. R E 3
FASH 150
FASHION APPAREL AND PROFESSIONAL TECHNIQUES
3/2/2
Provides detailed information about ready-to-wear and non-textile merchandise. Includes men’s and women’s clothing, jewelry, leather, shoes, and accessories. Examination of methods of construction and production, fashion terms, and consumer information. This is also a professional course for clothing construction, fashion design, and fashion merchandising students who wish to enhance skills in developing professional presentations through use of graphics and the computer.
FASH 154
FASHION ILLUSTRATION
3/2/2
The study and development of fashion-illustration techniques. Included will be the uses and purposes of the four types of fashion drawings: design sketching, production sketching, presentation drawing, and fashion illustration. Emphasis will be placed on freehand sketching of the fashion figure in a variety of poses, with attention to the drape of the fabric and its textural interest. R E 3
FASH 160
FASHION FIELDWORK
2/1/2
Corequisite: CWE 168/169
A course designed to provide the student with experience relating to the specific certificate career goals. Analysis and techniques of job application, interview, and resume writing. Fashion writing skills developed by newsletter preparation during in-class laboratory hours. To be taken in the final semester of program.
FASH 189
SPECIAL TOPICS
5.4-5.4-5.9
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
FASH 201
COLOR AND WARDROBE CONSULTING
3/2/2
Learn color analysis, wardrobe planning, and personal shopping for clients as a color and wardrobe consultant.
FASH 202
IMAGE CONSULTING
3/2/2
Trains students to become image consultants. It includes the study of client personal coloration and dress guidelines, professional wardrobe planning, and the image consulting business.
FASH 203
PROFESSIONAL PERSONAL SHOPPER
3/2/2
Learn how to analyze dress needs for corporate and individual image goals, shop for and sell to clients, produce fashion seminars, and work with domestic and international dress customs as a personal shopper.
FASH 209
CONSTRUCTION OF CHILDREN’S CLOTHING
2/1/3
Recommended Preparation: FASH 100 or basic sewing skills
Offers experience in the construction and design of children’s clothing. Use of commercial patterns as well as designing or adapting patterns is an important element. Also includes decorative embellishments, smocking, and needlework suitable for children’s clothing and a study of dressmaker and designer practices. R E 2
FASH 210
CLOTHING CONSTRUCTION STUDIO
1/3/0
Corequisite: Enrollment in any fashion course
For the student who requires more clothing construction experience, additional training, and/or technical updating. The student may pursue individual projects under staff supervision during laboratory hours. R E 3
FASH 221
CONTEMPORARY TAILORING
2/1/3
Recommended Preparation: FASH 100 or basic sewing skills
Course covers tailoring methods using soft, unstructured techniques. It includes elimination of bulk, knowledge of current development in shaping fabrics, new methods of finishing the inside of garments, use of commercial sewing machines, and selection of design and fabrics for contemporary tailoring. Emphasis will be on the professional application of new tailoring techniques and how these are used by the practicing dressmaker and tailor. R E 3
FASH 228
COMPUTERIZED EMBROIDERY AND DESIGNS
1/1/0
Explore the capabilities of computerized embroidery sewing machines, Internet links, use of scanners, digitizing, embroidery cars, clip art, design placement, stabilizers, embroidery threads, and use of computer software programs. R E 3
FASH 229 2/1/3
SEWING ON SERGERS
Recommended Preparation: FASH 100 or basic sewing skills
Includes training on a variety of machines: 5, 4, 3 and 2-thread sergers, the blind hemmer, computerized machines, and upholstery machines. This equipment is used in sample making, garment construction, garment manufacture, upholstery, and other related industries. R E 3

FASH 230 3/2/2
ALTERATIONS AND FITTING
Recommended Preparation: FASH 100 or basic sewing skills
Included are basic procedures involved in altering a ready-made garment, fitting patterns and clothing, power sewing-machine operation, and garment production techniques. R E 3

FASH 234 2/1/3
ADVANCED PATTERN AND DESIGN TECHNIQUES
Recommended Preparation: FASH 130
Advanced Pattern and Design Techniques is a course giving instruction in translating original designs into garments. Pattern designs and drapes will be more complex than those in the Flat Pattern and Draping courses. Instruction will be given in industrial pattern and apparel construction. Students will be encouraged to develop their own styles of design and patternmaking. R E 3

FASH 235 2/1/3
DESIGNING FOR THE FASHION INDUSTRY
Recommended Preparation: FASH 130
Designing for the Fashion Industry is a professional course simulating the procedures used in the design department of a garment manufacturer. The student will design in the areas of misses and junior dresses, lingerie, sportswear, active sportswear, after-five, and children’s wear. Students will deal with the problems of working ahead of fashion seasons, production costs, saleability, and manufacturability of garments. Emphasis also will be placed on polishing the student’s design techniques. R E 3

FASH 238 2/1/3
ADVANCED DRAPING AND FASHION DESIGN
Recommended Preparation: FASH 132
Advanced Draping and Fashion Design is a course which explores design principles; draping, and flat pattern techniques; wardrobe planning; and design presented. Business practices and apparel manufacturing employment trends for the designer or consultant who works at home or owns a small design house are reviewed. R E 3

FASH 240 3/2/2
DYE PROCESSES ON FABRICS
Explores a variety of methods used to dye and/or print fabrics suitable for use in clothing and interiors. It covers the traditional procedures used, terminology, equipment, and the various new dyes and techniques on the market. Various topics will be covered including block printing, stenciling, batik, fabric painting, tie-dyeing, and direct printing. Methods will be explored to enable professionals and students to design fabrics to suit their garment designs. R E 3

FASH 242 3/2/2
SEWING HOME FURNISHINGS
Recommended Preparation: FASH 100 or basic sewing skills
Covers training in current methods of sewing for the home. Projects include window treatments such as draperies, curtains, top treatments, tiebacks, and shades, as well as pillows and slipcovers. Also covers the home sewing profession and how to work with clients and commercial and home sewing equipment. R E 3

FASH 243 2/1/3
THE AMERICAN QUILT
Includes designing, creating, constructing, and marketing of American quilts. Emphasizes the professional aspects of producing quilts. Incorporates both traditional and contemporary uses of color, patterns, and design. R A 3

FASH 244 2/1/3
CREATING AND MARKETING QUILTED BOUTIQUE ITEMS
Emphasizes the commercial aspects of selling small quilted boutique items. Covers fashion trends, techniques in design, construction, embellishment, production, and retailing of quilted products for the consumer market. R A 3

FASH 245 2/1/3
CREATING AND MARKETING FABRIC ART
Provides detailed information about selling fabric art in the contemporary fashion and home furnishing industry. Also covers design, creation, and the newest construction methods. R A 3

FASH 247 1/1/.5
FASHION SHOW PARTICIPATION
Includes planning and participating in a student-designed fashion show. Students in this course will show their garments that were made in the clothing construction and/or fashion design classes or will develop staging from knowledge gained from the merchandising and display classes taken during the course of the student’s fashion program. They will work closely with The Fashion Show production class. R E 3

FASH 254 1/.5/1
FASHION IN SOUTHERN CALIFORNIA
A course that introduces students to the fashion-industry environment in Southern California. Students will study such vital areas as the California Mart showrooms, the garment district, Rodeo Drive and other fashion boutiques, a mannequin manufacturer, buying offices, fabric converters, designers’ studios, and manufacturers’ production facilities. R E 3

FASH 255 3/3/0
FASHION REPORTING
Designed to develop the skills and techniques required in fashion writing for use in a variety of media. It includes fashion reports, flyers, fashion show scripts, advertising copywriting, fashion editorial reporting, and fashion trend information. R E 3

FASH 256 2/1/3
FASHION MODELING
Emphasizes all phases of modeling techniques designed to acquaint the student with the various media through which these techniques can be utilized in the fashion business. R E 3

FASH 260 2/1/2
COMPUTER APPLICATIONS IN FASHION
Recommended Preparation: FASH 150 or prior knowledge and use of computers
An overview of several fashion related computer programs which include such software as paint and draw, a graphic database of fashion illustrations, computer-assisted apparel design, and pattern fitting. Word processing, spreadsheets, and computer presentation will also be used for both fashion merchandising and fashion design students. R E 3

FASH 289 .5-4/.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
Family and Consumer Sciences

**FCS 115 CONSUMER ISSUES**
An applied approach to consumer issues and problems enabling one to become an informed consumer. Emphasis on developing skills in personal and family financial management. Topics will include: decision-making, consumer resources, resolving consumer complaints, psychology of the marketplace, financial planning, consumer credit, stretching your food dollars, housing, economics through the life cycle, clothing, appliances, energy conservation, transportation, insurance, and health care.

**FCS 140 FASHION IMAGE AND APPAREL SELECTION**
Course offers concepts of apparel selection for professional and personal needs based on design, culture, fashion image, and lifestyles. It includes study of sociological, physiological, and psychological aspects of dress. It offers wardrobe analysis, coordination and maintenance, and consumer purchase guidelines.

**FCS 142 LIFE MANAGEMENT**
Application of principles of family resource management to personal and family settings. Decision-making in the management of time, energy, money, and other resources to student, work, and home situations. The course is designed for both women and men, employed or not, and for single adults or family members, with an investigation of our changing roles and lifestyles. Practical applications include balancing home, family, work, and individual responsibilities; household planning; work simplification; budgeting; and management of the home environment.

**FCS 142A LIFE MANAGEMENT**
Application of skills to effectively manage and balance personal, family, and work life including goal setting, communication, techniques for improving self-understanding, self-esteem, and interpersonal relationships. FCS 142A, B, and C may be taken one time each.

**FCS 142B LIFE MANAGEMENT**
Application of skills to effectively manage and balance personal, family, and work life including financial management, consumer problem-solving, family roles and responsibilities, and current issues in life management. FCS 142A, B, and C may be taken one time each.

**FCS 180 SPECIAL TOPICS**
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course.

**FCS 289 SPECIAL TOPICS**
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course.

**Fine Arts**

**FA 27 INTRODUCTION TO FINE ARTS**
An introductory course to the discipline of fine arts, including art, theatre, and music. The course will explore various topics that unite all fine arts, including terminology, aesthetics, themes, objective and subjective analysis, and techniques of the critic. Applies toward the Humanities requirement for all students. See Art, Music, Speech and Theatre for additional classes.

**Foods and Nutrition**

**FN 50 FUNDAMENTALS OF NUTRITION**
A comprehensive analysis of the principles of nutrition and their relationship to health throughout the life cycle. Essential nutrients and their functions and sources will be covered as well as dietary guidelines and current recommendations. Recent developments in nutrition research are explored.

**FN 64 NUTRITION ISSUES & CONTROVERSIES**
Stresses a topical approach to nutrition and related health conditions with emphasis on evaluation of controversial views and findings. Investigates problems related to food choices, energy balance, over-consumption of foods, food fads and fallacies, nutrient needs, nutrient supplements, vegetarian diets and sports nutrition.
FN 162 NUTRITION AND MEAL PLANNING FOR ONE OR TWO
Practical information relating to nutritional needs of mature and older adults and ways to achieve maximum nutrition with limited finances, equipment, time, and other related circumstances in a one or two person household. Emphasis is placed on the relationship of nutrition and diet choices to health, use of nutrition guides, and application of principles involving nutrient-retention in foods in simplified meal-planning and preparation.

FN 164 SPORTS NUTRITION
Overview of basic nutrition concepts for individuals interested in sports, fitness, and health. Emphasis on current nutrition practices related to athletic performance. Covers energy nutrient intakes, hydration, specific activity recommendations, and applications. R E 3

FN 171 SANITATION AND SAFETY
A study of environmental control and its application to food preparation, personal cleanliness, sanitation in the commercial kitchen and dining room, and the use and care of equipment within food service operations. Emphasis on safety and accident prevention on the job and optimum equipment selection, use, and maintenance. R E 3

FN 172 CATERING
Covers catering and special events planning and production including management, menu planning, estimating and controlling costs, equipment selection and use, logistics, and presentation techniques. Customer service and recommended business practices will be stressed as well as quality standards. R E 3

FN 173 CATERING AND BANQUETS
Catering, management and service, menu planning, equipment selection, logistics, and advanced presentation techniques of catering and banquet production will be included. On-site, off-premise, and special event planning from the perspective of hospitality, profitability and customer service are emphasized. R E 3

FN 189 SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

FN 220 COUNTRY FRENCH FOODS
Covers exploration and preparation of the foods of provincial France. Students will gain practical experience in the planning and preparation of representative Country French specialties and menus. Attention will be given to techniques, methods, and presentation for the catering and restaurant industry. R E 2

FN 221 FRENCH CUISINE
Focuses on the art of preparing and presenting elegant, classic French cuisine. Emphasis is on broadening the student’s knowledge and experience in preparing fine French foods for the culinary industry. R E 2

FN 222 CHINESE FOODS
Investigate the many regional cuisines of China, including Szechwan/Hunan, Peking/Mandarin, Cantonese, and Shanghai/Fukien. Practical experience in preparing authentic Chinese dishes is an integral part of the course. Emphasis is on developing professional skills and techniques applicable to the commercial food industry. R E 3

FN 223 ASIAN FOODS
Cuisine of Philippines, Japan, China, Thailand, India, Vietnam, and Indonesia. Regional ethnic, religious, and geographic influences on food patterns and customs will be examined. Professional catering and restaurant applications are included. R E 3

FN 226 MEXICAN FOODS
Survey of Mexico’s many regional cuisines. Specialized techniques, ingredients and equipment featured throughout laboratory activities. A wide variety of experience will also have professional and commercial applications. R E 3

FN 227 MEDITERRANEAN FOODS
A study of Mediterranean foods. The cuisines and cultures of the following countries are included: Spain, France, Italy, Morocco, Egypt, Greece, and Turkey. Laboratory experiences with food from the Mediterranean will be stressed as well as commercial applications. Included will be appetizers, soups, salads, main dishes, meat, game preparation, sauces, dressing, and desserts appropriate to the region. R E 3

FN 228 ITALIAN FOODS
This course covers the theory and study of Italian cuisine. Regional and cultural differences are explored as to how they are represented in traditional specialties. Students will gain practical experience in the techniques, preparation, and presentation of Italian cuisine. Development of professional skills for catering and the restaurant industry will be emphasized. R E 3

FN 230 VEGETARIAN FOODS
Exploration of vegetarian food preparation and nutrition information including health benefits and recommendations for healthy food choices, planning, and use of specialized ingredients. Laboratory experience with a wide variety of cultural and ethnic foods will be stressed as well as professional applications. R E 3

FN 232 LITE CUISINE STRATEGIES
Practical information for establishing a lifelong eating plan for reaching and maintaining a healthy weight and good health. Laboratory experience in preparing low fat foods using improved food preparation methods, emphasis will be placed on identifying the less desirable components of recipes and modifying or substituting them with more healthful ingredients. R E 3

FN 236 AMERICAN REGIONAL FOODS
A culinary history and survey of major influences and origins of American foods. Regions covered include the Northeast, Southern, Middle America, Pacific Northwest, Southwest and California. A unique cuisine has been created from the contributions of Native Americans and many immigrant groups. This diverse culinary heritage will be investigated through hands-on preparation of traditional regional foods. R E 3

FN 240 INTRODUCTION TO CULINARY ARTS
An introduction to the professional field of Culinary Arts. Topics included are: career options, menu planning, food purchasing, production management, sanitation and safety, dining room service, and overview of cooking methods. Development of culinary skills through lab applications. R E 3

FN 242 BREAKFSTS, LUNCHES, AND GARDE-MANGER
Practical experience in breakfast, lunch, and cold food preparation for the culinary professional. Techniques, preparation, presentation, and service of identified foods will be explored. Purchasing and storage methods are covered as well as quality control of products in the pantry area. R E 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>FN 244</td>
<td>BAKING BASICS</td>
<td>2/1/3</td>
<td>Covers the principles of baking, ingredients and their uses, quick breads, yeast dough products, cakes, cookies, pastry fillings, pies and pie fillings, and baked breakfast items. Careers in baking, sanitation and safety issues, and the nutritional considerations in baking are also covered. R E 3</td>
</tr>
<tr>
<td>FN 245</td>
<td>SPECIALTY AND SAVORY BAKING</td>
<td>2/1/3</td>
<td>Recommended Preparation: FN 244 Emphasis on specialty and advanced baking skills, techniques, methods and presentation. Hands-on production of creative breads, pastries, cakes and fillings integrated with savory culinary accompaniments from international cuisines. Nutrition principles as applied to baking will be included. R E 3</td>
</tr>
<tr>
<td>FR 252</td>
<td>SERVING SAFE FOOD</td>
<td>1/1/0</td>
<td>Training in food safety and sanitation to meet certification requirements for food handlers. Topics include ways to prevent food-related illnesses through safe food handling. R E 3</td>
</tr>
<tr>
<td>FN 275</td>
<td>FOOD AND BEVERAGE OPERATIONS</td>
<td>3/3/0</td>
<td>Food, beverage, and labor cost controls for careers in food and beverage operations. Specific areas covered include purchasing, receiving, storage, issuing, production, and sales. Introduces the basics of cost-volume-profit analysis. R E 3</td>
</tr>
<tr>
<td>FN 289</td>
<td>SPECIAL TOPICS</td>
<td>.5-4/5-4/5-9</td>
<td>The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3</td>
</tr>
<tr>
<td>FRLG 189</td>
<td>SPECIAL TOPICS</td>
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</tr>
</tbody>
</table>

**French Courses**

- **FR 1**
  - **COMPETITIVE FRENCH**
  - Corequisite: FR 999A
  - Recommended Preparation: College level reading ability
  - Designed to develop the fundamentals of communicative competence in colloquial French. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years high school French.

- **FR 1A**
  - **INTRODUCTORY ELEMENTARY FRENCH**
  - Corequisite: FR 999A
  - Recommended Preparation: College level reading ability
  - Designed to develop fundamentals of communicative competence in daily spoken French. Elementary reading and writing will be introduced as well as fundamental aspects of culture. FR 1A is equivalent to the first half of FR 1. Combination of FR 1A and FR 1B is equivalent to two years high school French.

- **FR 1B**
  - **CONTINUING ELEMENTARY FRENCH**
  - Corequisite: FR 999A
  - Recommended Preparation: FR 1A or one year of high school French
  - Reviews and expands the fundamentals of communicative competence in daily spoken French. There is increased emphasis on reading and writing skills, as well as fundamental aspects of culture. FR 1B is equivalent to the second half of a regular elementary language course. Upon completion, students may enroll in FR 2. Combination of FR 1A and FR 1B is equivalent to two years high school French.

- **FR 2**
  - **ELEMENTARY FRENCH**
  - Corequisite: FR 999A
  - Recommended Preparation: FR 1 or 1B or two years of high school French
  - Designed to further develop the fundamentals of communicative competence in daily spoken French. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester.

- **FR 2A**
  - **INTRODUCTION TO BEGINNING FRENCH II**
  - Corequisite: FR 999A
  - Recommended Preparation: FR 1 or 1B or two years of high school French
  - Designed to further develop the fundamentals of communicative competence in daily spoken French. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. Throughout the course, the role of grammar is secondary to that of acquiring basic competency in understanding, reading, and speaking French. This course parallels the first half of FR 2. FR 2A and 2B, when taken together, are equivalent in units and content to FR 2.

- **FR 2B**
  - **CONTINUATION OF BEGINNING FRENCH II**
  - Corequisite: FR 999A
  - Recommended Preparation: FR 2A or two and one-half years of high school French
  - Designed to further develop the fundamentals of communicating in French, including listening comprehension, reading, and basic conversation. The emphasis is on the comprehension of native spoken and written French. This course expands writing skills and presents additional aspects of French daily life and culture. Throughout the course, the role of grammar is secondary to that of acquiring basic competency in understanding, reading, and speaking French. This course parallels the second half of FR 2. FR 2A and 2B, when taken together, are equivalent in units and content to FR 2.

- **FR 3**
  - **INTERMEDIATE FRENCH**
  - Corequisite: FR 999B
  - Recommended Preparation: FR 2 or three years of high school French
  - Reviews the fundamentals with further study of the French language and culture.

- **FR 4**
  - **INTERMEDIATE FRENCH**
  - Corequisite: FR 999B
  - Recommended Preparation: FR 3 or four years of high school French
  - Concentrates on the development of fluency in the skills needed to communicate in French. Further study of cultural topics.
**FR 5 ADVANCED FRENCH**  
**Recommended Preparation:** Knowledge of FR 4  
Offers a brief survey of French literary movements, stressing written and oral reports based on French readings and films. Provides students the opportunity to work for accuracy and fluency at the verbal level. In addition, opportunities for advanced composition and intensive use of practical idioms are included.

**FR 10 INTERMEDIATE CONVERSATIONAL FRENCH**  
**Recommended Preparation:** FR 2 or three years of high school French  
Designed to develop fluency in French. The emphasis is on both formal and informal expression and conversation in the language.  
Corequisite: FR 3, 4  

**FR 20 INTRODUCTION TO FRENCH CIVILIZATION**  
**Recommended Preparation:** FR 2 or three years of high school French  
Emphasizes readings and discussions in French literature, art, and institutions to develop insights into French culture. Conducted in French.

**FR 21 INTRODUCTION TO FRENCH LANGUAGE AND CULTURE**  
**Recommended Preparation:** College level reading ability  
Traces the development of French culture from Roman period to modern times. Conducted in English. No prior study of French language or culture required.

**FR 250 PRACTICAL FRENCH**  
A basic course in French emphasizing conversational skills as applied to everyday situations including business, travel, and related topics. Consideration also given to cultural topics. Assumes no prior knowledge of the language.  
Corequisite: FR 1, 1A, 1B, 2, 2A, 2B  
Requires concurrent enrollment in designated Elementary French courses. Enhances and provides practice in skills learned in Elementary French Language courses. Minimum one hour per week required.

**FR 999B FRENCH LANGUAGE LAB**  
Corequisite: FR 3, 4  
Corequisite: CWE 168/169  
Internships and fieldwork comprise a significant portion of the students’ work in this Geographic Information Systems course (GIS). Students will participate in selected internship opportunities and field applications of GIS.

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**GIS 201 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)**  
**Prerequisite:** GIS 201  
Covers hardware and software considerations, raster and vector modeling, intermediate map analysis sources of digital data, and the appropriate implementations of a GIS. A software program such as ArcView 3.0 will be utilized throughout the course laboratory sections. Students will gain intermediate skills needed to implement a GIS.

**GIS 202 INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (GIS)**  
**Prerequisite:** GIS 201  
Introduces students to advanced topics, techniques, and analysis in Geographic Information Systems (GIS). Students will retrieve and apply data in their chosen business or academic area of interest.

**GIS 203 GEOGRAPHIC INFORMATION SYSTEMS: ADVANCED VECTOR AND RASTER**  
**Prerequisite:** GIS 202  
Introduces students to advanced topics, techniques, and analysis in Geographic Information Systems (GIS). Students will retrieve and apply data in their chosen business or academic area of interest.

**GIS 204 GEOGRAPHIC INFORMATION SYSTEM: ADVANCED APPLICATIONS—INTERNSHIP AND FIELDWORK**  
**Prerequisite:** GIS 203  
Internships and fieldwork comprise a significant portion of the students’ work in this Geographic Information Systems course (GIS). Students will participate in selected internship opportunities and field applications of GIS.

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**FR 999B FRENCH LANGUAGE LAB**  
Corequisite: FR 3, 4  
Corequisite: CWE 168/169  
Internships and fieldwork comprise a significant portion of the students’ work in this Geographic Information Systems course (GIS). Students will participate in selected internship opportunities and field applications of GIS.

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**FR 999B FRENCH LANGUAGE LAB**  
Corequisite: FR 3, 4  
Corequisite: CWE 168/169  
Internships and fieldwork comprise a significant portion of the students’ work in this Geographic Information Systems course (GIS). Students will participate in selected internship opportunities and field applications of GIS.
A lecture and laboratory course to study the physical and cultural geography of mountain areas of California and the western United States. Locations may include, but are not limited to, Yosemite, Sequoia, the Sierra Nevada, and the Coast Ranges. Thematic emphasis and course content will vary depending on location. R E 3

(GEOL 105) COASTAL AREAS OF CALIFORNIA AND THE WESTERN UNITED STATES

A lecture and laboratory course to study the physical and cultural geography of coastal areas of California and the western United States. Locations may include, but are not limited to, Morro Bay, Big Sur, Monterey, Oregon and the Coast Ranges. Thematic emphasis and course content will vary depending on location. R E 3

GEOL 189 SPECIAL TOPICS .5-4/.5-4/.5-9

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

GEOL 289 SPECIAL TOPICS .5-4/.5-4/.5-9

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

Geology

GEOL 1 INTRODUCTION TO PHYSICAL GEOLOGY 4/3/3

Introduction to the principles of geology and the methods of studying the earth. Consideration is given to the materials of the earth's crust, processes of mountain building and volcanism, plate tectonics, sculpturing of the earth's surface, evaluation of natural resources, and the implications of geology to society with the aim of stimulating the student's interest in geological aspects of the environment in which he will spend his life. Includes laboratory exercises in identification of common minerals, and interpretation of aerial photographs, topographic, and geologic maps. Field trips may be required to fulfill the objectives of this course.

GEOL 2 HISTORICAL GEOLOGY 4/3/3

Recommended Preparation: GEOL 1 or 20

A study of the physical and biological aspects of the evolution of the earth. The history and origin of the earth, continents, oceans and atmosphere; origin and evolution of life; global tectonics; methods and concepts utilized in deciphering the geologic records. Field trips may be required to fulfill the objectives of this course.

GEOL 3 GEOLOGY OF CALIFORNIA 3/3/0

A study of California's geologic provinces and their direct affect on the human history of the state. How the San Andreas Fault system, other earthquake faults, volcanoes, mountain ranges, glacial valleys, and other geological features relate to and influence our life in this state. How our energy resources and recreation are directly related to the geology of the state. Field trips may be required to fulfill the objectives of this course.

GEOL 5 MARINE GEOLOGY 4/3/3

Recommended Preparation: GEOL 1 or 20, or MS 20

Students will study the geological aspects of oceanography. Topics will include the geology of the ocean basins and continental margins, with emphasis on their formation, evolution, morphologies, sediments and resources. Attention will be given to laboratory and field techniques. Field trips will be required.

GEOL 6 PRINCIPLES OF MINERALOGY 4/2/6

Prerequisite: GEOL 1 or 20

Recommended Preparation: CHEM 1A

The fundamental physical and chemical properties of minerals and basic crystallography. Includes identification of minerals by physical and chemical methods. Field trips may be required to fulfill the objectives of this course.

GEOL 20 INTRODUCTION TO EARTH SCIENCE 4/3/3

Introduces and brings together geology, oceanography, meteorology, and astronomy. Study of the universe, solar system, solid earth (rocks, minerals, plate tectonics, mountain-building, and earthquakes), oceans, shorelines, the atmosphere, and life, past and present. Field trips may be required to fulfill the objectives of this course.

GEOL 21 THE SOLAR SYSTEM 3/3/0

Why do we explore? Is life unique to Earth? This course will be a detailed study of the origin and evolution of our solar system, from the beginning to the present, as deduced from sampling, remote sensing, exploration, imagery, and theory. We will discuss and compare composition; tectonics; volcanism; surface processes; and atmospheric and thermal evolution of Earth, the moon, terrestrial, and Jovian planets and their satellites. Additional topics will include meteorite and comet impacts and the possible existence of life elsewhere in the solar system. Field trips may be required to fulfill the objectives of this course. Also listed as ASTR 21. Credit to be given in either area, not both.

GEOL 23 ENVIRONMENTAL GEOLOGY 4/3/3

How the earth affects man and man affects the earth. Includes environmental studies into the problems related to earthquakes, volcanism, floods, landslides, the shoreline, energy resources and pollution. Principles of sound planning for human use of the planet earth. Field trips may be required to fulfill the objectives of this course. Also listed as ENV 23. Credit to be given in either area, not both.

GEOL 110 GEOLOGY OF THE NATIONAL PARKS 3/3/0

A survey course of the National Parks of the United States with an emphasis on how the geology of each park reflects the geologic growth and development of the North American continent.

GEOL 162 GEMS AND MINERALS 2/1/3

Course is designed for the beginning rockhound or amateur mineral collector who wants to become familiar with gems and minerals. Includes the fundamentals of minerals and use of mineral keys. Simple physical and chemical tests are introduced along with a demonstration of chemical and spectroscopic analysis. (Not open to students with credit in GEOL 6 and may not be substituted for GEOL 6 for major requirements.)

GEOL 170, A, B 2 or 4/1 or 2/3 or 5

GEOL 201 GEOLOGY FIELD STUDIES: NATIONAL PARKS AND MONUMENTS- WESTERN UNITED STATES

Studies the origin, evolution, and geology of national parks and monuments of the Western United States. Thematic emphasis, course content, and national parks to be visited will vary. Students in geology and earth sciences are encouraged to enroll.
<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course Number</th>
<th>Course Title</th>
<th>Hours Per Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 172, A, B</td>
<td>1 or 2/5 or 1/1.5 or 3</td>
<td>GEOLOGY FIELD STUDIES: MOJAVE DESERT</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GEOL 173, A, B</td>
<td>1 or 2/5 or 1/1.5 or 3</td>
<td>GEOLOGY FIELD STUDIES: DEATH VALLEY</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GEOL 174, A, B</td>
<td>1 or 2/5 or 1/1.5 or 3</td>
<td>GEOLOGY FIELD STUDIES: EASTERN SIERRA REGION</td>
<td>3/3/0</td>
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<tr>
<td>GEOL 175, A</td>
<td>1 or 2/5 or 1/1.5 or 3</td>
<td>GEOLOGY FIELD STUDIES: SAN ANDREAS FAULT</td>
<td>3/3/0</td>
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<tr>
<td>GEOL 176, A, B</td>
<td>1 or 2/5 or 1/1.5 or 3</td>
<td>GEOLOGY FIELD STUDIES: GRAND CANYON</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GEOL 177, A, B</td>
<td>1 or 2/5 or 1/1.5 or 3</td>
<td>GEOLOGY FIELD STUDIES: PENINSULAR RANGES</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GEOL 179, A</td>
<td>1 or 2/5 or 1/1.5 or 3</td>
<td>GEOLOGY FIELD STUDIES: KING’S CANYON-SEQUOIA</td>
<td>3/3/0</td>
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<tr>
<td>GEOL 182, A</td>
<td>1 or 2/5 or 1/1.5 or 3</td>
<td>GEOLOGY FIELD STUDIES: COAST RANGE-MORRO BAY</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GEOL 183, A, B</td>
<td>1 or 2/5 or 1/1.5 or 3</td>
<td>GEOLOGY FIELD STUDIES: ANZA-BORREGO DESERT</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GEOL 184, A</td>
<td>1, 5/1.5</td>
<td>GEOLOGY FIELD STUDIES: LOS ANGELES-ORANGE-SAN DIEGO COUNTY</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GER 1</td>
<td>5/5/0</td>
<td>ELEMENTARY GERMAN</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GER 1A</td>
<td>2.5/3/0</td>
<td>INTRODUCTORY ELEMENTARY GERMAN</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GER 1B</td>
<td>2.5/3/0</td>
<td>CONTINUING ELEMENTARY GERMAN</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GER 2</td>
<td>5/5/0</td>
<td>ELEMENTARY GERMAN</td>
<td>3/3/0</td>
</tr>
</tbody>
</table>

**German**

**GER 1**

**Elementary German**

Corequisite: GER 999A

Recommended Preparation: College-level reading ability

- Designed to develop the fundamentals of communicative competence in colloquial German. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced as well as fundamental aspects of culture. Equivalent to two years high school German.

**GER 1A**

**Introductory Elementary German**

Corequisite: GER 999A

- Recommended Preparation: College level reading ability
- Designed to develop fundamentals of communicative competence in daily spoken German. Elementary reading and writing will be introduced, as well as fundamental aspects of culture. GER 1A is equivalent to the first half of GER 1. Upon completion of GER 1B, students may enroll in GER 2. Combination of GER 1A and 1B is equivalent to two years of high school German.

**GER 1B**

**Continuing Elementary German**

Corequisite: GER 999A

- Recommended Preparation: GER 1A or one year of high school German
- Reviews and expands the fundamentals of communicative competence in daily spoken German. There is increased emphasis on reading and writing skills, as well as fundamental aspects of culture. GER 1B is equivalent to the second half of a regular elementary language course. Upon completion, the students may enroll in GER 2. Combination of GER 1A and GER 1B is equivalent to two years high school German.

**GER 2**

**Elementary German**

Corequisite: GER 999A

- Recommended Preparation: GER 1 or 1B or two years of high school German

- Designed to further the fundamentals of communicative competence in daily spoken German. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 2A</td>
<td>INTRODUCTION TO BEGINNING GERMAN II</td>
<td>2.5/3/0</td>
</tr>
<tr>
<td>GER 2B</td>
<td>CONTINUATION OF BEGINNING GERMAN II</td>
<td>2.5/3/0</td>
</tr>
<tr>
<td>GER 3</td>
<td>INTERMEDIATE GERMAN</td>
<td>5/5/0</td>
</tr>
<tr>
<td>GER 4</td>
<td>INTERMEDIATE GERMAN</td>
<td>5/5/0</td>
</tr>
<tr>
<td>GER 10</td>
<td>INTERMEDIATE CONVERSATIONAL GERMAN</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GER 21</td>
<td>INTRODUCTION TO GERMAN CULTURE</td>
<td>3/3/0</td>
</tr>
<tr>
<td>GER 250</td>
<td>PRACTICAL GERMAN</td>
<td>1/3/0</td>
</tr>
<tr>
<td>GER 999A</td>
<td>GERMAN LANGUAGE LAB</td>
<td>.25/1/0</td>
</tr>
<tr>
<td>GER 999B</td>
<td>GERMAN LANGUAGE LAB</td>
<td>.25/1/0</td>
</tr>
<tr>
<td>GERO 101</td>
<td>FUNDAMENTALS OF AGING</td>
<td>1 or 1.5/1 or 1.5/0</td>
</tr>
<tr>
<td>GERO 110</td>
<td>PSYCHOLOGY OF AGING</td>
<td>1.5/1.5/0</td>
</tr>
<tr>
<td>GERO 115</td>
<td>SOCIOLOGY OF AGING</td>
<td>1.5/1.5/0</td>
</tr>
<tr>
<td>GERO 120</td>
<td>PHYSIOLOGY OF AGING</td>
<td>1.5/1.5/0</td>
</tr>
</tbody>
</table>

**GER 2A**
- **Course Title**: Introduction to Beginning German II
- **Units**: 2.5/3/0
- **Corequisite**: GER 999A
- **Recommended Preparation**: GER 1 or 1B or 2 years of high school German
- **Description**: Designed to further develop the fundamentals of communicative competence in daily spoken German. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester. Throughout the course, the role of grammar is secondary to that of acquiring basic competency in understanding, reading, and speaking German. This course parallels the first half of GER 2. GER 2A and GER 2B, when taken together, are equivalent in units and content to GER 2.

**GER 2B**
- **Course Title**: Continuation of Beginning German II
- **Units**: 2.5/3/0
- **Corequisite**: GER 999A
- **Recommended Preparation**: GER 2A or two and one-half years of high school German
- **Description**: Designed to further develop the fundamentals of communicating in German, including listening comprehension, reading, and basic conversation. The emphasis is on the comprehension of native spoken and written German. This course expands writing skills and presents additional aspects of German daily life and culture. Throughout the course, the role of grammar is secondary to that of acquiring basic competency in understanding, reading, and speaking German. This course parallels the second half of GER 2. GER 2A and 2B, when taken together, are equivalent in units and content to GER 2.

**GER 3**
- **Course Title**: Intermediate German
- **Units**: 5/5/0
- **Corequisite**: GER 999B
- **Recommended Preparation**: GER 2 or three years of high school German
- **Description**: Reviews the fundamentals with further study of the German language and culture.

**GER 4**
- **Course Title**: Intermediate German
- **Units**: 5/5/0
- **Corequisite**: GER 999B
- **Recommended Preparation**: GER 3 or four years of high school German
- **Description**: Concentrates on the development of fluency in the skills needed to communicate in German. Further study of cultural topics.

**GER 10**
- **Course Title**: Intermediate Conversational German
- **Units**: 3/3/0
- **Recommended Preparation**: GER 2 or three years of high school German
- **Description**: Designed to develop fluency in German. The emphasis is on both formal and informal expression and conversation in the language. R E 3

**GER 21**
- **Course Title**: Introduction to German Culture
- **Units**: 3/3/0
- **Recommended Preparation**: College-level reading ability
- **Description**: Presents the many aspects of German culture: history, philosophy, political ideas, literature, music, science, and customs; and its influence on and contributions to the civilization of America and the world. Conducted in English. No prior study of German language or culture required.

**GER 250**
- **Course Title**: Practical German
- **Units**: 1/3/0
- **Description**: Emphasizes conversational skills as applied to everyday situations including business, travel, and related topics. Consideration also given to cultural topics. Assumes no prior knowledge of the language. R E 1

**GER 999A**
- **Course Title**: German Language Lab
- **Units**: .25/1/0
- **Corequisite**: GER 1, 1A, 1B, 2, 2A, 2B
- **Recommended Preparation**: College-level reading ability
- **Description**: Requires concurrent enrollment in designated Elementary German courses. Enhances and provides practice in skills learned in Elementary German courses. Minimum one hour per week required. R E 3

**GER 999B**
- **Course Title**: German Language Lab
- **Units**: .25/1/0
- **Corequisite**: GER 3, 4
- **Recommended Preparation**: College-level reading ability
- **Description**: Requires concurrent enrollment in designated Intermediate German courses. Enhances and provides practice in skills learned in Intermediate German language courses. Minimum one hour per week required. R E 3

**GERO 101**
- **Course Title**: Fundamentals of Aging
- **Units**: 1 or 1.5/1 or 1.5/0
- **Description**: A multidisciplinary introduction to aging with emphasis on the adaptive behaviors of the normal aging process. Focuses on physical changes and psychosocial changes such as self concept, role function, and interdependence, viewing man as a biopsychosocial being. Consideration given to financial, environmental, legal, health, and socialization needs of the older individual. Includes an investigation of application of basic theory in relationship to current issues involving the older adult. Provides 20 CEUs for Administrators of Residential Care Facilities for the Elderly.

**GERO 110**
- **Course Title**: Psychology of Aging
- **Units**: 1.5/1.5/0
- **Description**: Examines the psychodynamics of aging as related to human development in the adult years and focuses on maturity and old age. Psychological needs and responses of the individual during the aging process will be examined. Emphasis will be placed on the promotion of mental health and optimum development. Mental disturbances that affect the elderly will be introduced. Provider-approved by the California Board of Registered Nursing Provider Number CEP60 for 24 contact hours.

**GERO 115**
- **Course Title**: Sociology of Aging
- **Units**: 1.5/1.5/0
- **Description**: Examines the changes in social roles and situations that occur as a result of the aging process. Attitudes of society toward aging and the aged will be examined. Investigation will be made into changing patterns in family roles and relationships affecting the older adult. Provider-approved by the California Board of Registered Nursing Provider Number CEP60 for 24 contact hours.

**GERO 120**
- **Course Title**: Physiology of Aging
- **Units**: 1.5/1.5/0
- **Description**: This course will explore myths and observable biological/physiological processes in aging and senescence. Emphasis will be placed on methods of assisting older persons in health promotion and maintenance including balanced nutrition and exercise programs. Chronic illness and biological deterioration in the final phases will be approached with an attitude of the value of life and human integrity. This course will provide 20 CEUs for Administrators of Residential Care Facilities for the Elderly. Provider-approved by the California Board of Registered Nursing Provider Number CEP60, for 24 contact hours.

**GERO 130**
- **Course Title**: Gerontology Services Administration
- **Units**: 3/3/0
- **Description**: Provides the student with an in-depth view of the various agencies (public and private) that serve the older adult population. The focus will be on the functions of these agencies and how their responsibilities are administered. This course will provide 20 CEUs for Administrators of Residential Care Facilities for the Elderly.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC 101</td>
<td>INTRODUCTION TO GRAPHIC COMMUNICATION</td>
<td>3/2/3</td>
<td>Designed to introduce the graphics major as well as the non-major to the broad field of Graphic Communications. Includes experience in design, desktop publishing, copy preparation, process camera, plate-making, press operations, and bindery, as well as hands-on experience in each of the major printing processes, including offset lithography, letterpress, and screen printing. R E 1</td>
</tr>
<tr>
<td>GC 102</td>
<td>INTRODUCTION TO OFFSET LITHOGRAPHY</td>
<td>3/2/3</td>
<td>Fundamental instruction in the theory of offset lithography, the use of the process camera, typesetting methods, darkroom procedures, chemicals and films, practice in film assembly, proofing, and plate-making. Emphasis is placed on fundamental pressroom procedures, press, press chemistry, paper, inks, and the use of offset duplicators.</td>
</tr>
<tr>
<td>GC 150</td>
<td>DESKTOP ELECTRONIC PUBLISHING</td>
<td>3/2/3</td>
<td>This course provides information and hands-on training with various word processing, graphics, and desktop electronic publishing software. Using microcomputers, laser printers, and typesetters emphasizing electronic publishing from concept to camera-ready copy. R E 2</td>
</tr>
<tr>
<td>GC 189</td>
<td>SPECIAL TOPICS</td>
<td>.5-4/5-4/5-9</td>
<td>Recommended Preparation: GC 101, 102, 180, 151, GD 147</td>
</tr>
</tbody>
</table>

**Graphic Communications**

**SPECIAL TOPICS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC 189</td>
<td>SPECIAL TOPICS</td>
<td>.5-4/5-4/5-9</td>
<td>Recommended Preparation: GC 101, 102, 180, 151, GD 147</td>
</tr>
</tbody>
</table>

**DESKTOP MULTIMEDIA PRODUCTION**

Recommended Preparation: GD 147, 150, GC 151

An introductory course for students interested in the computer and its ability along with image setters to output pre-press information including color separation. Students will study production techniques as they relate to the computer and its output devices.

**COMPUTER TYPOGRAPHY**

The fundamentals and operation of digital type composition, including the point system, type identification, copy fitting, mark-up and proof-reading. Includes hands-on practical experience in the operation of several different types of software on the Macintosh computer.

**INTRODUCTION TO SCREEN PRINTING**

Principles, basic methods and techniques of preparing hand-cut and photographic stencils, printing techniques, simple color separation, and equipment and materials handling. Care, use, and safety precautions in operating and cleaning the silk screen unit. Also listed as ART 170. Credit given in either area, not both. R E 3

**SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
GD 140 GRAPHIC DESIGN A
Introduction to fundamentals of design concepts that explore organization of visual elements for graphic communication. Studio work will include traditional and computer-generated assignments in layout and typography; and exploration in the areas of color overlay and half-tones. Designed to convey current concepts in the graphic design field. Also listed as ART 140. Credit given in either area, not both. 

GD 141 GRAPHIC RENDERING TECHNIQUES
The exploration of two-dimensional media for graphics, pencil, ink, felt-tip pens, and airbrush. Problems encourage exploration and control in a variety of design applications. Recognition and choice of techniques in translating ideas. Also listed as ART 141. Credit to be given in either area, not both. 

GD 142 PACKAGE DESIGN
Designed to train students in the traditional and computer-generated construction and design of three-dimensional packaging, including labels, overwraps, printed cartons, and point-of-purchase displays. Also listed as ART 142. Credit given in either area, not both. 

GD 144 HANDLETTERING AND TYPOGRAPHY
Basic principles of various kinds of handlettering, illumination, and typography. Course includes discussing and practicing type styles and characteristics, construction and development of type styles, familiarization with spacing techniques, and relationships and knowledge of tools, including computers and terminology. Also listed as ART 144. Credit given in either area, not both. 

GD 145 GRAPHIC ILLUSTRATION
Learn to develop illustration for advertising, graphics, and editorial use. Design and apply illustrations with consideration for reproduction requirements. Illustrations will be done in line art, black and white, and limited and full color in all mediums. Also listed as ART 145. Credit to be given in either area, not both. 

GD 146 CALLIGRAPHY
Introduction to fundamentals of the art of "beautiful writing" (calligraphy). Studio work will include assignments in: Chancery Cursive Unical, Roman, Black Gothic Humanist Hand, as well as others. Also listed as ART 146. Credit given in either area, not both. 

GD 147 INTRODUCTION TO COMPUTER GRAPHICS
An introductory computer graphics course which covers many aspects of computer-generated art and graphics. The student will use Macintosh computers to assist in creating art and graphics using many different software programs applicable today for use in graphics. 

GD 148 DESKTOP GRAPHIC DESIGN
Recommended Preparation: GD or ART 140, GD 147; Macintosh computer-based paint and illustration systems on the Macintosh computer. Software like Superpaint, Pixel Paint and Illustrator are utilized. Work in black and white as well as color. The course is intended for those with experience in art and design. 

GD 149 DESKTOP PAINT & ILLUSTRATION
Recommended Preparation: GD or ART 141, 145, GD 147
An introduction of Macintosh computer-based presentations of still video graphics and film-oriented animation development as it relates to the design industry. Computer-based presentations allow graphic designers and animators to breathe life into storyboards with sound and visual effects. Graphic artists can create digital images for clients on disk. 

GD 150 DESKTOP VIDEO AND ANIMATION
Recommended Preparation: GD or ART 141, 147, 149
An introduction to Macintosh computer-based presentations of still video graphics and film-oriented animation development as it relates to the design industry. Computer-based presentations allow graphic designers and animators to breathe life into storyboards with sound and visual effects. Graphic artists can create digital images for clients on disk. 

GC 289 SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. 

Graphic Design

ART 140, GD 147, 149
Recommended Preparation: GD or ART 140
The further study of design concepts to explore organization of visual elements to graphic communication. Studio work will include: layout and production of designed formats (magazine ads, logo, TV storyboard, newspaper) and conceptualization techniques in the graphic design field, as well as portfolio preparation. Also listed as ART 240. Credit given in either area, not both. 

GD 241 AIRBRUSH TECHNIQUES
Recommended Preparation: GD in Art
Designed to train students in principles of various techniques using the airbrush. Techniques in how to clean, repair, operate, mask, and style will be explored in student projects.
<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course Number</th>
<th>Course Title</th>
<th>Hours Per Week</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT</td>
<td>220</td>
<td>Introduction to Financial Planning</td>
<td>3/3/0</td>
<td></td>
</tr>
<tr>
<td>HLTH</td>
<td>1</td>
<td>Health Education</td>
<td>3/3/0</td>
<td></td>
</tr>
<tr>
<td>HLTH</td>
<td>2</td>
<td>Standard First Aid</td>
<td>1.5/1.5/0</td>
<td></td>
</tr>
<tr>
<td>HLTH</td>
<td>3</td>
<td>Women's Health Issues</td>
<td>3/3/0</td>
<td></td>
</tr>
<tr>
<td>HSC</td>
<td>102</td>
<td>Comprehensive Health Assessment</td>
<td>2/2/0</td>
<td></td>
</tr>
<tr>
<td>HSC</td>
<td>104</td>
<td>Advanced First Aid</td>
<td>1.5/1.5/0</td>
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<tr>
<td>HSC</td>
<td>172</td>
<td>The Physiological Effects of Alcohol and Drugs</td>
<td>3/3/0</td>
<td></td>
</tr>
<tr>
<td>HSC</td>
<td>184</td>
<td>Medical Aspects of Eating Disorders</td>
<td>3/3/0</td>
<td></td>
</tr>
<tr>
<td>HSC</td>
<td>217</td>
<td>Cardiac Dysrhythmias</td>
<td>2/2/0</td>
<td></td>
</tr>
<tr>
<td>HSC</td>
<td>222</td>
<td>Basic Life Support/CPR for Healthcare Providers</td>
<td>.75/.75/0</td>
<td></td>
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<tr>
<td>HSC</td>
<td>223</td>
<td>Basic Life Support/CPR for Healthcare Providers Renewal</td>
<td>.25/.25/0</td>
<td></td>
</tr>
<tr>
<td>HSC</td>
<td>224</td>
<td>Pediatric Basic Life Support/CPR</td>
<td>.5/.5/0</td>
<td></td>
</tr>
</tbody>
</table>

**Health Sciences**

- **Health Education**
  - An investigation into traditional and holistic health topics as they relate to the individual, family, community, and society. General topics include stress reduction techniques, emotional management, sexuality, and intimate relationships, nutrition and food awareness, fitness and recreation, aging and dying, narcotics, alcohol, and tobacco. Course may be offered by mediated mode of instruction.

- **Standard First Aid**
  - A course in accident and injury prevention, early medical care, first aid for common injuries, and lifesaving skills. Successful completion qualifies a student for the American Red Cross Standard First Aid Certificate.

- **Women’s Health Issues**
  - An investigation into traditional and holistic health topics with special emphasis on women’s issues, including sexuality and intimate relationships, reproductive issues and PMS, recreational activities and fitness concepts, nutrition and food awareness, belief systems and emotional management, relaxation, visualization, and stress reduction, and aging and dying.

- **Comprehensive Health Assessment**
  - Examines theory and practice of health assessment with emphasis on analysis and synthesis of subjective and objective data collected to identify health problems, and to develop client management plans. Explores the health assessment process in the context of health promotion, risk factor identification, and recognition of common abnormalities. Provider approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

- **The Physiological Effects of Alcohol and Drugs**
  - Focuses on the physical and physiological effects of drugs and alcohol on the body. Also listed as HS 172. Credit given in either area, not both. Provider approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

- **Medical Aspects of Eating Disorders**
  - This course identifies classification, epidemiology, etiology, and physiology of obesity, anorexia, compulsive eating, and bulimia. The contemporary methods of assessment, treatment, and complications of obesity, anorexia, compulsive eating, and bulimia are to be examined. This course is part of a paraprofessional educational program. Also listed as HS 184. Credit given in either area, not both. Provider approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

- **Cardiac Dysrhythmias**
  - Recommended Preparation: N 172
  - Emphasizes cardiac function, normal and abnormal heart rhythms, causes of dysrhythmias, and interpretation of monitoring equipment printouts. Provider approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

- **Basic Life Support/CPR for Healthcare Providers**
  - Provides instruction, practice, and return demonstration of CPR and obstructed airway management techniques. This includes one- and two-rescuer resuscitation techniques for adults, children, and infants. Includes a brief review of basic anatomy and physiology of the circulatory and respiratory systems. Recognition of cardiopulmonary emergencies, myocardial infarction, stroke, and airway obstruction will also be discussed briefly. Satisfactory completion of the course will provide an American Heart Association Health Provider Basic Life Support course completion card.

- **Basic Life Support/CPR for Healthcare Providers Renewal**
  - Limitation: Current American Heart Association Healthcare Provider course completion card or American Red Cross equivalent
  - Review and update of cardiopulmonary resuscitation principles and procedures for health care providers previously educated in one- and two-rescuer adult, child and infant resuscitation and foreign body airway obstruction management. Satisfactory completion of course provides American Heart Association Healthcare Provider course completion card.

- **Pediatric Basic Life Support/CPR**
  - Designed for laypersons who live or work with infants or children. Includes a brief overview of anatomy and physiology of pediatric respiratory and circulatory systems. Emphasis is placed on safety and accident prevention; minimizing the risks of heart and lung disease; and recognizing the symptoms of heart attack, respiratory and cardiac arrest, and airway obstruction. Includes demonstration and practice in one-rescuer infant and child CPR and infant and child airway obstruction. Satisfactory completion of the course provides American Heart Association Pediatric Basic Life Support course participation card.
HSC 225  PEDIATRIC BASIC LIFE SUPPORT/CPR RENEWAL  .25/.25/0

Limitation: Current American Heart Association Healthcare Provider course completion card or current Pediatric BLS course

Review and update of infant and child cardiopulmonary resuscitation principles and procedures for laypersons who live or work with infants and children and have previously been educated in one-rescuer child and infant resuscitation and foreign body airway obstruction management. Satisfactory completion of course provides American Heart Association Pediatric Basic Life Support course participation card.

HSC 226  ADVANCED CARDIAC LIFE SUPPORT  2/2/0

Recommended Preparation: Current BLS Healthcare Provider completion card or equivalent

Provides healthcare students with critical assessment and management skills to treat adults with cardiac arrest, respiratory arrest, and stroke. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60 30 contact hours. R E 3

HSC 227  PEDIATRIC ADVANCED LIFE SUPPORT  2/2/0

Limitation: Current BLS Healthcare Provider course completion card or equivalent with American Heart Association criteria

American Heart Association/Academy of Pediatrics Pediatric Advanced Life Support (PALS) course for health care providers to develop proficiency in the knowledge and skill of advanced pediatric resuscitation and emergency care. Satisfactory completion of the course will provide an American Heart Association Pediatric Advanced Life Support Provider course completion card. R E 3

HSC 228  CALCULATIONS FOR MEDICATION ADMINISTRATION  1/1/0

Basic concepts for problem-solving in administering drugs and solutions. Stresses equivalencies and unit conversions.

HSC 229  FIRST AID & HEALTH FOR EARLY CHILDHOOD TEACHERS  1/1/0

Overview of health for young children. Also includes instruction in first aid and CPR for early childhood educators who work with young children. R E 3

HSC 240  PHLEBOTOMIST/LABORATORY ASSISTANT PROCEDURES  4/4/0

Corequisite: CWE 166 or 169

Recommended Preparation: MA 200

Basic course in phlebotomy and laboratory-assistant procedures giving students knowledge of venipuncture/skin puncture, specimen collection and handling, universal precautions, laboratory safety, and basic medical terminology. Certificate awarded upon completion of course with grade of C or better and all required venipunctures/skin punctures.

HSC 242  BASIC LIFE SUPPORT INSTRUCTOR RENEWAL  1.5/1.5/0

Limitation: Current American Heart Association Healthcare Provider course completion card or American Red Cross equivalent

Presents teaching/learning strategies, manikin maintenance, and decontamination procedures to individuals seeking education as basic cardiac life support instructors. Includes a review of anatomy and physiology of the circulatory and respiratory systems. Satisfactory completion of the course provides American Heart Association BLS/CPR Instructor course completion card. R E 3

HSC 243  BASIC LIFE SUPPORT INSTRUCTOR RENEWAL  .5/5/0

Limitation: Current American Heart Association Basic Life Support Instructor course completion card

Review and update of cardiopulmonary resuscitation principles and foreign body airway obstruction (FBAO) procedures for adults, children, and infants.Includes review of teaching/learning strategies, mannequin and decontamination. Satisfactory completion of provide American Heart Association Basic Life Support Instructor course completion card. R E 3

HSC 252  PRACTICAL COMMUNICATION IN SPANISH FOR HEALTH-CARE PERSONNEL  2/2/0

Recommended Preparation: College-level reading ability

A basic course in Spanish for health care personnel. The emphasis is on both formal and informal basic expression and conversation in the language geared toward medical terminology. This course may be taken four times for credit. Provider approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours. R E 3

HSC 260  COMPUTER APPLICATIONS FOR HEALTH-CARE PERSONNEL  2/1/1

Prepares health science and nursing students to perform patient simulation using computers. Provides orientation to hospital and office-based applications, including word processing, data base systems, electronic spreadsheets and hospital information systems. Also listed as MA 260. Credit to be given in either area, not both.

HSC 263  SKILLS LAB—BASIC  .25/.75/0

Includes demonstration and practice of basic manual skills and procedures necessary for the student at the fundamental level. May be offered as open-entry/open-exit. This course will be offered for credit/no credit only. R E 3

HSC 264  SKILLS LAB—SPECIALties  .25/.75/0

Recommended Preparation: N 172

Includes demonstration and practice of the manual skills and procedures necessary for the student at the maternal-child health-care level. Open-entry/open-exit. Offered for credit/no credit only. R E 3

HSC 265  SKILLS LAB—ADVANCED  .25/.75/0

Recommended Preparation: N 173 and N 174

Includes demonstration and practice of manual skills and procedures necessary for the student at the advanced medical-surgical level. Open-entry/open-exit. Offered for credit/no credit only. R E 3

HSC 289  SPECIAL TOPICS  .5-4/.5-4/.5-9

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

HSC 291  MANAGEMENT OF ASSAULTIVE BEHAVIOR  .5/5/0

Created for individuals whose work brings them into close contact with assaultive and violent behaviors. The theory of recognition and prevention of the assaultive crisis will be discussed. Students will participate in kinetic-learning exercises designed to teach professional physical-control techniques for use with assaultive individuals. R E 3
<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course Number</th>
<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours Per Week</th>
<th>Lab Hours Per Week</th>
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</thead>
<tbody>
<tr>
<td>ACCT 220</td>
<td></td>
<td>Introduction to Financial Planning</td>
<td></td>
<td>3/3/0</td>
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<tr>
<td>HEBR 1</td>
<td>5/5/0</td>
<td>ELEMENTARY HEBREW</td>
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<td></td>
<td></td>
<td>Corequisite: HEBR 999</td>
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<td>Recommended Preparation: College level reading ability</td>
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<td>Designed to develop the fundamentals of communicative competence in colloquial Hebrew. The emphasis is on listening, comprehension, and conversation skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years high school Hebrew.</td>
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<tr>
<td>HEBR 2</td>
<td>5/5/0</td>
<td>ELEMENTARY HEBREW</td>
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<td>Prerequisite: HEBR 1</td>
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<td></td>
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<td>Corequisite: HEBR 999</td>
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<td>Designed to further the fundamentals of communicative competence in daily spoken Hebrew. Although the focus remains on listening, comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester.</td>
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<tr>
<td>HEBR 999</td>
<td>25/1/0</td>
<td>HEBREW LANGUAGE LAB</td>
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<td>Corequisite: HEBR 1,2</td>
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<td>Requires concurrent enrollment in designated Elementary Hebrew courses. Enhances and provides practice in skills learned in Elementary Hebrew courses. Minimum one hour per week required.</td>
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<tr>
<td>HIST 4</td>
<td>3/3/0</td>
<td>WORLD HISTORY TO 1750</td>
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<td>A survey of major themes and events in world history from the earliest civilizations to 1750. Emphasis will be placed on the rise of ancient Egypt, Greece, and Rome; the early Indian, Chinese, Latin American, and African empires; and European expansionism and global encounters.</td>
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<tr>
<td>HIST 5</td>
<td>3/3/0</td>
<td>WORLD HISTORY FROM 1750</td>
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<td>A survey of major themes and events in world history from 1750 to the present. Emphasis will be placed on the Atlantic slave trade and slavery in the Americas, late 18th and early 19th century political revolutions, the Industrial Revolution, imperialism and colonialism, and 20th century nationalist movements and revolvements.</td>
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<td>HIST 7</td>
<td>3/3/0</td>
<td>SOCIAL AND ECONOMIC HISTORY OF THE UNITED STATES TO 1876</td>
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<td>Surveys the American experience from the colonial period through the Civil War. Analyzes the relationships between social and economic phenomena. Featured topics include the collision of Native American and European ideas of property, the contributions of Native Americans to U.S. economic development, the impact of laissez-faire ideology on American political thought, the conflict between agrarian and industrial visions of America, the impact of economic change on family structure and class/race relations, slavery and indenture labor systems; the impact of U.S. expansion on Native American population and cultures; immigration; and the creation of national economic institutions. Course may be offered by mediated mode of instruction.</td>
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<td>HIST 8</td>
<td>3/3/0</td>
<td>SOCIAL AND ECONOMIC HISTORY OF THE UNITED STATES, 1877 TO THE PRESENT</td>
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<td>Surveys the American experience from Reconstruction to the present. Analyzes the relationships between social and economic phenomena. Featured topics include the impact of industrialization on the family; women; children; new immigrants, African-Americans, and Native Americans; the effects on Native Americans of mining, agricultural, military, and other policies in the West; unions and working-class consciousness; urbanization; robber barons and captains of industry; the Great Depression; the wartime economy and the military-industrial complex; emergence of the &quot;mixed&quot; economy; and theories of political economy. Course may be offered by mediated mode of instruction.</td>
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<td>HIST 9</td>
<td>3/3/0</td>
<td>DIPLOMATIC HISTORY OF THE UNITED STATES</td>
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<td>A historical study of the diplomatic development of the United States from the colonial period to the present. Emphasis on international and diplomatic causes and effects of historical events.</td>
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<td>HIST 10</td>
<td>3/3/0</td>
<td>THE UNITED STATES IN THE FAR EAST</td>
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<td>An in-depth study of the United States' historical involvement in the Pacific Ocean and the Far East. A detailed study of the early explorations in the Pacific area; the principal social, cultural, and political institutions of Far Eastern countries, past and present relations of the United States in the Far East.</td>
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<td>HIST 11</td>
<td>3/3/0</td>
<td>PERSPECTIVES OF PEACE STUDIES</td>
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<td>A comprehensive study of the social ecology of peace and national security. Describes the problems of seeking peace in a nuclear age; the effects of nuclear weapons on ecosystems as well as on human victims; the interrelationship between weapons technology, national security, arms control, and the U.S./Soviet relationship; and the relationship of societal institutions to the quest for peace, and offers avenues for citizen participation in decision-making on peace-related issues. May be offered by mediated mode of instruction.</td>
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<td>HIST 12</td>
<td>3/3/0</td>
<td>REVOLUTIONS AND REVOLTS</td>
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<td>Examination of the origins, phases, and results of selected revolutions throughout modern world history. Analyze from a comparative perspective interpretations of the causes; phases; results of the revolutions; and how issues of gender, race, and class shaped these revolutions.</td>
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<td>HIST 15</td>
<td>3/3/0</td>
<td>THE VIETNAM WAR</td>
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<td>A study of the Vietnam War, including an examination of how the United States became involved, how the War was waged, and reactions to the policy in the United States. An analysis of the legacies of the Vietnam conflict will be covered as America confronts world problems today.</td>
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<td>HIST 16</td>
<td>3/3/0</td>
<td>HISTORY OF THE UNITED STATES TO 1876</td>
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<td>History of the United States from its colonial origins through the period of the Reconstruction, in terms of cultural, economic, political, and social developments as influenced by geographical and cultural expansions and sectional conflicts. Course may be offered by mediated mode of instruction.</td>
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<td>HIST 17</td>
<td>3/3/0</td>
<td>HISTORY OF THE UNITED STATES SINCE 1876</td>
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<td>U.S. history from the Reconstruction period to the present, relating to such areas as Industrial Revolution, reform movements from the Progressives to the New Deal, overseas expansion, collective security in foreign affairs, and other foreign and domestic issues since World War II. Course may be offered by mediated mode of instruction.</td>
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HIST 19  
UNITED STATES SINCE 1945  
3/3/0  
A general survey of the United States and its world relationships since the close of World War II. Special emphasis will be given to the Cold War, American social ferment, political history, the development of the Civil Rights movement, and American foreign policy through the Vietnam War.

HIST 20  
ETHNIC CULTURES OF THE UNITED STATES  
3/3/0  
A general overview of the sociological, psychological, and historical background of selected ethnic groups in the United States. Also listed as SOC 20. Credit to be given in either area, not both.

HIST 21  
WOMEN IN UNITED STATES HISTORY: A MULTICULTURAL PERSPECTIVE  
3/3/0  
A survey of U.S. women’s history from the 18th century to the present. Focus will be placed on uncovering the similarities and differences in the historical experiences of women based on their class, racial, and ethnic identity. Concentration is on the changing roles of women in the family, community, labor force, and political system, and exploration of the evolution of gender roles and identities.

HIST 22  
BASIC UNITED STATES HISTORY  
3/3/0  
Survey of American history and interpretation of institutions from the colonial period to the present. Course may be offered by mediated mode of instruction.

HIST 25  
HISTORY OF AMERICAN WEST  
3/3/0  
A study of events and historical processes that unfolded in the region between the Mississippi River and the Pacific Ocean, beginning with American Indian groups and their encounters with non-Indians and continuing through the American conquest to the present.

HIST 27  
LATIN AMERICA: PRE-EUROPEAN TO INDEPENDENT NATIONHOOD  
3/3/0  
A survey of the heritage of Latin America from a cradle of civilization in the pre-European era to the beginning of nationhood. The course will emphasize the political, economic, cultural, and social history of this period. The student will be introduced to pre-European America, the Iberian background, European conquest and dominance, the movements to end European dominance, and the creation of Latin America.

HIST 28  
LATIN AMERICA: NATIONHOOD TO CONTEMPORARY LATIN AMERICA  
3/3/0  
A survey of the political, economic, cultural, and social history of Latin America. The course will review the development of Latin American nations since independence from European colonialism. The course will also survey the relationship of Latin American nations with the rest of the world, with special emphasis on relations with nations of the Western Hemisphere.

HIST 30  
HISTORY OF MEXICO  
3/3/0  
Provides a general survey of Mexican history from pre-Columbian to present. The course of study includes the political, social, economic, and cultural growth of the Mexican nation. Emphasis is placed on the political development.

HIST 31  
MEXICAN CIVILIZATION  
4/2/4  
A survey of the life and culture of Mexico enabling the student to examine the prehistoric, classical and new civilization periods of Mexico. An examination of artifacts, sculpture, architecture, weaving, painting, ceramics, and historic documents and memorabilia. Class will include orientation period to acquaint student with background and knowledge. Orientation will be followed by travel and study in Mexico. Field trips required.

HIST 32  
CALIFORNIA HISTORY  
3/3/0  
Historical heritage and development of California, with emphasis on economic, political and social factors which have influenced development from the pre-Spanish period to the present.

HIST 33  
THE POLITICAL/SOCIAL HISTORY OF THE CHICANAS/OS  
3/3/0  
Considers the principal developments in Chicana/o history from the 18th century to the present. Students explore the history of Chicanas/os, and the manner in which the cultural patterns have been retained or redefined by life in the United States. Special emphasis will be given to their migration and settlement of the American Southwest; their interaction with the Anglo newcomers; and the transformation of their society after the Texas Revolution and the U.S.-Mexican War; the role of urbanization and immigration within that transformation; regional variation within the Chicana/o community; and Chicana/o contributions to the development of American society.

HIST 40  
ENGLISH HISTORY TO 1668  
3/3/0  
A survey of English history from the Roman conquest to the Glorious Revolution of 1688. Emphasis is placed on the Tudor and Stuart monarchs, especially Henry VIII and Elizabeth the Great.

HIST 41  
ENGLISH HISTORY SINCE 1688  
3/3/0  
A survey of English history from the Glorious Revolution to the present with emphasis on the transition from aristocratic government to parliamentary democracy, and the rise and decline of the British Empire.

HIST 60  
RUSSIAN HISTORY AND CULTURE  
3/3/0  
A survey of Russian history from the 10th to the end of the 19th Century, with special emphasis on the 19th Century and the intellectual currents which would support either peaceful modernization or violent revolution. Because an understanding of Russian historical development is improved by greater awareness of her cultural characteristics, this course also will examine various aspects of Russian culture, religion, customs, literature and art.

HIST 61  
HISTORY AND POLITICS OF RUSSIA: SOVIET PERIOD TO THE PRESENT  
3/3/0  
A survey and evaluation of the Russian Revolution followed by an analysis of the major forces which shaped the Soviet Union’s political, economic, and social systems. Course also includes the fall of the Communist Party and new status of former Soviet republics. Also listed as PS 61. Credit given in either area, not both.

HIST 62  
EUROPEAN HISTORY TO 1650  
3/3/0  
Survey of the historical developments of Europe from the Ancient Mediterranean to 1650. Includes an overview of the economic, political, social, cultural, and scientific developments from the emergence of the Greek Empire to the Thirty Years War.

HIST 63  
EUROPEAN HISTORY SINCE 1650  
3/3/0  
Survey of the historical developments of Europe from the Age of Absolutism to the present. Includes an overview of political, social, cultural, and scientific developments from the era of 17th Century nation building to the present.

HIST 70  
HISTORY OF ASIA TO 1800  
3/3/0  
A survey of major social, religious, political, economic, and cultural traditions of Asia to 1800. Emphasis is placed upon the historical development of India, China, Japan, and Southeast Asia.

HIST 71  
HISTORY OF ASIA SINCE 1800  
3/3/0  
A continuation of history of Asia to 1800, with an emphasis upon the problems associated with modernization, adaptation, and cultural change since 1800.
HIST 72  
HISTORY OF CHINA  
A survey of the history of China from Ancient Era to the present. Social, political, geographic, economic aspects of development will be covered.

HIST 74  
ISLAMIC CIVILIZATION TO 1258  
A survey of the cultural and political history of the Middle East during the 7th to 13th centuries, Islamic civilization. Islam is unique in being at once a religion, a society, and a political empire. The course looks at the struggles among these three elements. The origins of Shi'ism and other sects relevant to an understanding of the modern Middle East and its peoples will be examined, as well as Islam’s interactions with the West.

HIST 75  
INTRODUCTION TO THE CONTEMPORARY MIDDLE EAST  
A survey of the major political, economical, religious and social institutions and movements of the Middle East from 1800 to the present, with special emphasis on the problems of developing Middle Eastern nations, the Arab-Israeli conflicts, and the political and economic implications of Middle Eastern oil. Includes a brief introduction to Islamic religious institutions, terrorism and militarism, with special emphasis on the importance of these institutions to the contemporary scene. Also listed as PS 75. Credit to be given in either area, not both.

HIST 80  
INTRODUCTION TO CONTEMPORARY AFRICA  
A survey of African history from ancient Egypt to the present. Focus will be on the nature of early African empires and societies, the impact of the slave trade, responses to imperial conquest and colonial rule, the rise of nationalist movements and the regaining of political independence, and the contemporary challenges facing post-colonial African states and peoples. Also listed as PS 80. Credit to be given in either area, not both.

HIST 81  
AFRICAN AMERICAN HISTORY  
Focuses on African American history. Emphasis will be placed on the African peoples' experiences in the United States. Included will be discussion of African American leaders from 1619 to the present, special epochs, and trends. Covers factors that influenced the changes of attitudes of and towards African Americans.

HIST 130  
THE DEAD SEA SCROLLS  
Designed to acquaint students with the manuscript and archaeological finds at Qumran and their significance today, this course surveys Qumran’s geographic setting and the manuscript discoveries. Briefly reviews the history of Scrolls scholarship and the recent accessibility of the materials. Attention is given to the languages of the Scrolls, materials on which they were written, and methods dating the finds. Identifies, discusses categories of Qumran literature. Covers leading theories of the identity of the Qumran community. Examines the relationship of the Scrolls to the modern Hebrew Bible and the New Testament. Covers current major controversies in Qumran scholarship; provides sources for keeping abreast of it. Honors Program Course. R E 3

HIST 189  
SPECIAL TOPICS  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

HIST 289  
SPECIAL TOPICS  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

HORT 7  
INTRODUCTION TO LANDSCAPE DESIGN  
Fundamentals of landscape design as applied to residential landscape projects, study of materials used in landscape development, site analysis, problems of design, fundamentals of plant selection, and introduction to graphic presentations. Field trips may be required to fulfill the objectives of this course.

HORT 10  
PLANT MATERIALS-ANNUALS/GROUNDCOVERS  
An introductory course in ornamental plants and identification. Includes ornamentals used as groundcovers, plants, bedding plants, vines and small shrubs. Growth habits and cultural requirements will be studied. Field trips required to fulfill the objectives of this class.

HORT 11  
PLANT MATERIALS-TREES AND SHRUBS  
An introductory course in ornamental trees and shrubs identification. Growth characteristics and cultural requirements will be studied. Field trips may be required to fulfill the objectives this class.

HORT 20  
INTRODUCTION TO HORTICULTURAL SCIENCE  
An introductory course in ornamental horticulture. Plant structure, growth and development, pests, soils, fertilization, propagation, pruning, diseases, planting, greenhouse techniques, and landscaping principles will be studied. Extensive hands-on greenhouse work will be involved. Field trips may be required to fulfill the objectives of this class.

HORT 29  
ORNAMENTAL NATIVE PLANTS  
Studies California native plants suitable for landscape use. Emphasizes the identification of plants, cultural requirements for their use in the landscape, and the ecology of the plants in nature. Special attention will be placed on solving landscape problems using native and other drought-tolerant plants. R E 1

HORT 106  
LANDSCAPE CADD  
Recommended Preparation: HORT 130  
Introduction to the use of computer-aided drawing and drafting (CADD) applications in landscape design; covers applications in computer mapping and graphics, planting design, and landscape development according to industry standards. R E 3

HORT 109  
INTRODUCTION TO PLANTING DESIGN  
Introduction to the elements and principles of planting design. Emphasis is given to organizing and applying plant material to design problems using accepted ecological, functional, and aesthetic standards. Field trips may be required to fulfill the objectives of this course.

HORT 112  
PLANT PROPAGATION  
Theory and practices of plant propagation, including seeds, cuttings, division, tissue culture, layering, budding, and grafting. Study will include propagation structures, plant growth regulators and environmental factors regulating plant growth and development.
HORT 113  3/2/3  SOILS AND FERTILIZERS
An introductory course in soils and fertilizers. Soil development, texture, aeration, cation exchange, and other physical and chemical properties will be studied. Attention to the characteristics, uses, and methods of application of fertilizers and soil amendments in practical applications will constitute a large section of this course.

HORT 115  3/3/0  HISTORY OF LANDSCAPE DESIGN
A study of landscape design from its beginnings to the present emphasizing the period after 1400. Includes Italian, French Renaissance, English natural period, and Oriental gardens to the development of American gardens. Field trips may be required to fulfill the objectives of this course.

HORT 116  3/3/0  IRRIGATION SYSTEMS
An introductory irrigation-systems course with emphasis on landscape, nursery and greenhouse system design, installation, maintenance and repair. Field trips may be required.

HORT 119  3/2/3  TURF-GRASS PRACTICES
Study of turf-grass practices emphasizing turf-grass maintenance, irrigation, aeration, fertilizing, diseases, insects and weeds; mechanical equipment and production of major turf grasses in California; application to golf courses, parks, schools and private property. Field trips may be required to fulfill the objectives of this course.

HORT 120  4/3/2  INTEGRATED PEST MANAGEMENT
Recognition and environmentally acceptable control of pests in landscapes, nursery, structures, and the home. Such pests include insects, spider mites, weeds, fungi, bacteria, viruses, nematodes, and vertebrates.

HORT 130  3/3/0  HARDSCAPE AND CONSTRUCTION MATERIALS
Introduces students to the materials used in the development of ornamental hardscapes in the field of landscape design. These materials include soils, stone, wood, brick, paving materials, fencing, plastics and drainage materials. Design considerations in the use of these materials and the laws and regulations that apply are also covered.

HORT 131  1/1/0  WEED IDENTIFICATION
Identification of common weeds found in Southern California, their growth patterns, and how to control them.

HORT 160  1/5/1.5  NATIVE ORNAMENTAL PLANTS/MORRO BAY
A field course studying native plants in Morro Bay and adjacent areas that can be used in residential and commercial landscapes. The course will emphasize plant identification, propagation, disease and pest control, plant form, type, tolerance, soil preference, nutrition, and planting and pruning methods.

HORT 161  1.5/1/5  HORTICULTURE FIELD STUDIES - GRAND CANYON AND ADJACENT AREAS
A field course studying native plants in Grand Canyon National Park and adjacent areas that can be used in human environments. The course will emphasize alpine plant communities; plant biogeography; plant succession; plant classification and identification; plant care, needs, and tolerances, as well as soil preferences. R E 3

HORT 162  1.5/1/1.5  HORTICULTURE FIELD STUDIES - YOSEMITE
A field course studying native plants in Yosemite National Park and adjacent areas that environments. The course will emphasize foothill and yellow pine plant communities; plant biogeography; plant succession; plant classification and identification; plant care, needs, and tolerances, as well as soil preferences. R E 3

HORT 163  1.5/1/1  HORTICULTURE FIELD STUDIES - SEQUOIA NATIONAL PARK
A field course studying native plants in Sequoia National Park and adjacent areas that can be used in human environments. Emphasizes white fir and redwood plant communities, plant biogeography, fire succession, plant classification and identification, plant care, cold and snow tolerances, as well as soil preferences. R E 3

HORT 164  1.5/1/1  HORTICULTURE FIELD STUDIES - ZION NATIONAL PARK
A field course studying native plants in Zion National Park and adjacent areas that can be used in residential and commercial landscapes. The course will emphasize plant identification, propagation, disease and pest control, plant form, type, tolerance, soil preference, nutrition, planting, and pruning methods. R E 3
HD 104 INFANT AND TODDLER DEVELOPMENT
Development and behavior from conception to age three. Characteristic social, physical, and sensorimotor behavior patterns of infants and toddlers in relation to the environment will be explored through theory and direct observation. (DS 4)

HD 105 INFANT-TODDLER PROGRAMS
Program models for children from birth to three years of age. Includes goals, philosophies, infant and family needs, curriculum, nutrition, safety, routines, physical space, and equipment. Emphasis is upon group settings which provide quality care for infants. (DS 4)

HD 106 TEACHING CULTURALLY DIVERSE CHILDREN
Develops an understanding of a child’s linguistic and cultural background and how it relates to his/her physical, social, emotional and intellectual growth.

HD 110 PRINCIPLES AND PROGRAMS FOR YOUNG CHILDREN
An introduction to early childhood studies programs. Emphasis will be on programs for the child from infancy to five. Included will be types, objectives, philosophies, history, trends, the importance and philosophies covered will include planning, setting objectives, implementing and evaluating curricula, as well as observing and assessing the child.

HD 112 EXCEPTIONAL CHILDREN
An introduction to special education. This course offers a survey and study of various characteristics of exceptional children. Ranging from the gifted and talented child to the severely retarded, this course will facilitate a better understanding of children with special needs. Also listed as SE 112. Credit given in either area, not both.

HD 120 CHILD GUIDANCE
Introduction to the study of developmentally-appropriate child guidance skills. Emphasis will be on communicating effectively with children, guiding children of varying ages, promoting self control, and enhancing self esteem. (DS 3)

HD 131 CREATIVE ACTIVITIES IN CHILD DEVELOPMENT
Presents the techniques and application of music and art media used in the creative development of the young child. (DS 3)

HD 145 YOUNG CHILDREN, LANGUAGE ARTS AND LITERATURE
An exploration of the techniques, materials, and environments used in presenting a language-arts program. Emphasis will be on developing materials and acquiring children’s literature. (DS 3)

HD 150 SCIENCE, SAFETY, AND NUTRITION
A course which gives an overview of science, safety, and nutrition for young children. Methods for implementing a safe environment, stimulating curiosity and developing skills of investigation, and facilitating nutritional education for young children will be emphasized. Students will develop educational activities to use with children. (DS 7)

HD 160 CURRICULUM IN EARLY CHILDHOOD PROGRAMS
Prerequisite: HD 101, 131, 145, 150
Designing a curriculum that fosters the child’s competence in all areas of development. The approach to curriculum will be developmentally based aimed at fostering creativity, emotional health, social relationships, and cognitive skills. Topics covered will include planning, setting objectives, implementing and evaluating curricula, as well as observing and assessing the child.

HD 170 INTRODUCTION TO PERCEPTUAL-MOTOR DEVELOPMENT
A survey of perceptual motor skills, the sensory systems and the abilities of children and how they relate to the development of the self-concept and academic readiness. This course will explore movement education, visual and auditory perception, and teaching through sensory motor experiences. Students will participate in designing a program in movement education. Also listed as SE 170. Credit given in either area, not both.

HD 175 ADULT SUPERVISION IN EARLY CHILDHOOD/SCHOOL-AGE CENTERS
A study of the methods and principles of supervising student teachers, assistant teachers, parents, and volunteers in early-childhood or school-age centers. Emphasis is on the role of a mentor who functions to guide the teaching team while simultaneously addressing the needs of children, parents, and their staff. Satisfies the adult supervision requirement for the Child Development Permit and eligibility to apply for the California Mentor Teacher Program.

HD 181 PRACTICUM/FIELD WORK (EARLY CHILDHOOD)
Prerequisite: HD 160 or concurrent enrollment in HD 160
Corequisite: CWE 168/169
Provides supervised experience and discussion of experiences in selected early childhood programs in a National Association for Education of Young Children accredited Children’s Center. Experiences include involvement in all areas, such as creating the environment, preparing materials, program planning and implementation, curriculum design, and other areas relating to the teaching of young children.

HD 189 SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. RE 3

HD 190 ADMINISTRATION OF SCHOOLS FOR YOUNG CHILDREN—PROGRAM
Prerequisite: HD 110, PSYC 7, SOC 15
Designed to prepare administrators of schools for young children. Emphasis on human relations, responsibilities of the director, planning, personnel, staff development, operating the children’s program, parent’s program and interacting with the community, including public relations.

HD 191 ADMINISTRATION OF SCHOOLS FOR YOUNG CHILDREN—MANAGEMENT
Prerequisite: HD 110, PSYC 7, SOC 15
Designed to prepare administrators of schools for young children. Emphasis is on preliminary steps: start-up, licensing requirements, operational and on-going costs, recordkeeping, managerial decision-making, time management, legal issues, regulations and requirements.
HD 213 1/1/0
FAMILY CHILD CARE AS A BUSINESS
Explores the business aspects of operating a family child care home. Special attention will be given to working effectively with parents, establishing and enforcing policies and procedures, and maintaining a strong client base. Taxes, insurance, recordkeeping, subsidized care, and accreditation standards will also be addressed.

HD 215 1/1/0
ACTIVITIES AND ENVIRONMENTS FOR FAMILY CHILD CARE HOMES
Provides family child-care homes with specific ideas for indoor and outdoor environments as the basis for curriculum and care of infants and young children. Emphasis is on assessing and creating developmentally appropriate spaces for activities, routine care, storage, and record keeping, as well as providing for the providers’ families needs. Additional emphasis is on providing specific curriculum ideas in the areas of dramatic play, creative art, math, cooking, language, literature, and outdoor activities.

HD 266 1/1/0
CURRICULUM PLANNING FOR SCHOOL-AGE CHILD CARE
 Takes an integrated approach to designing and implementing a developmentally-appropriate curriculum for school-age child-care programs. Includes techniques for the effective planning and implementation of activities which enhance creativity and promote social, emotional, physical, and cognitive development. This course applies toward state licensing requirements for school-age child care.

HD 267 1/1/0
PROGRAM AND STAFF DEVELOPMENT FOR SCHOOL-AGE CHILD CARE
Explores the dynamics of working as a team member in implementing a program for school-age children. The course content includes communication skills, roles and responsibilities of staff, and effective means of working together to plan and implement curriculum for children ages five through twelve. This course applies towards licensing requirements for school-age child care.

HD 268 1/1/0
GUIDANCE AND DISCIPLINE FOR SCHOOL-AGE CHILD CARE
Presents an overview of effective discipline and guidance techniques for working with children ages five through twelve. Special attention will be given to the developmental needs of the child and to effective classroom management techniques. The course will also introduce program-planning techniques which foster appropriate behavior. The course applies toward state licensing requirements for school-age child care.

HD 281 2/1/4
PRACTICUM/FIELD WORK (INFANT AND TODDLER)
Prerequisite: HD 105
Corequisite: CWE 168/169
Provides supervised experience and discussion of experiences in infant and toddler programs in a National Association for Education of Young Children accredited program. The course includes involvement in all areas, such as creating the environment, program planning and implementation, curriculum design, and other areas relating to the teaching and care of infants and toddlers.

HD 282 2/1/4
PRACTICUM/FIELD WORK (SCHOOL-AGE)
Prerequisite: HD 265
Corequisite: CWE 168/169
Provides supervised experience and discussion of experiences in selected school-age childhood programs in a National Association for Education of Young Children accredited children’s center. Experiences include involvement in all areas, such as creating the environment, preparing materials, program planning and implementation, curriculum design, and other areas relating to the teaching of young children.

HD 289 .5-4/.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

Human Services

HS 37 3/3/0
INTRODUCTION TO CRIMINOLOGY
Theories of historical, social, cultural, genetic, psychological, economic, and political causative factors related to crime are covered. Emphasis is placed on the origin of laws, their relationship to law and society, the organization and functions of the criminal justice system, the impact of law, and the role of law to prevent future criminal behaviors. Focus is placed on the most relevant crime(s) within our culture and the related effects of social change.

HS 100 3/3/0
HUMAN SERVICES IN A CHANGING SOCIETY
History, philosophy, and development of thought in the field of social services in the context of an ever, changing society. Designed to identify and analyze the relationship of primary helping services to societal issues in urban and rural America. Examines the impact of population changes on the delivery of human services.

HS 110 3/1/6
FIELD INSTRUCTION AND SEMINAR I
Provides field-instruction experience where students are placed in various agencies and organizations to learn through supervised participation the work of the agency. Emphasizes student growth in self-awareness and self-esteem, interviewing skills, connections, interrelations with other core courses, and introduction to agency and client systems.

HS 119 3/3/0
INTRODUCTION TO CRIMINAL JUSTICE SYSTEM
The purpose of this course is to give the students a broad overview of the American criminal justice system. It deals with the examination of criminals, victims, and the society in which they live. Emphasis is given to the criminal justice process, law enforcement, adjudication, post-conviction strategies, and juvenile justice. This course also examines the entire spectrum of criminal justice and its components, from crime causation and police involvement, to the trial process and corrections.

HS 120 3/3/0
HUMAN DEVELOPMENT IN THE SOCIAL ENVIRONMENT
This course is an analysis of the developmental behaviors associated with each stage in human development and the way the social environment impedes or helps this development. Examples of disruptive influences on human development and the way human service occupations develop systems and services to minimize these disruptive influences.

HS 128 3/3/0
COMMUNITY-BASED CORRECTIONS
A highly interactive exploration of the knowledge, skills and relationships which constitute front-line work in community-based corrections, halfway houses, parole and probation supervision, diversion, youth advocacy and community programs. The student will acquire pertinent working knowledge of systems operating at the local and state level with regard to community-based programs and how to design and operate them.

HS 130 3/3/0
SPECIAL POPULATION ISSUES
Identifies the special problems, issues, and concerns of modern living to which helping professionals address themselves. Specifies the value base on which human-service programs are built and offers a beginning look at the historical issues involved in the intracultural socialization process. The focus will be on the socio-psychological dynamics of special population groups.
HS 140
GROUP LEADERSHIP AND GROUP PROCESS
3/3/0
An introduction to the dynamics of groups interaction with emphasis upon the individual’s firsthand experience as the group studies itself (under supervision). The factors involved in problems of communication, effective emotional responses, and personal growth will be highlighted. The emphasis will be upon group process as a means of changing behavior.

HS 150
FIELD INSTRUCTION AND SEMINAR II
3/1/6
Provides field experience whereby students apply the values, concepts, and skills gained in other core courses to the process of helping others. The major emphases of this course are sharpening of skills, use of self in the helping process, group process, and use of systems and community resources. R E 3

HS 160
INTRODUCTION TO VICTIMOLOGY
3/3/0
This course presents an overview of the problems of victimization, both violent and non-violent. An emphasis is placed on existing resources in the community and career opportunities available in the fields of victim services such as counseling crime victims, victim compensation, restitution, mediation, and support staff to the criminal justice system.

HS 161
CONFLICT RESOLUTION AND MEDIATION TRAINING
1.5/1.5/0
Background, development, and methodology of non-violent, non-litigious conflict resolution with emphasis on theory and practice of mediation. State-certified course designed to train individuals to be effective in resolving conflicts in family, community, educational, and workplace settings.

HS 170
ALCOHOL AND OTHER DRUGS IN OUR SOCIETY
3/3/0
Covers various theories of substance abuse and alcoholism, identification signs, and symptomatology. Treatment resources will be examined and “myths” of use will be dispelled. Students will learn a pragmatic approach to working with the “using” population. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

HS 171
ALCOHOLISM: INTERVENTION, TREATMENT, AND RECOVERY
3/3/0
The treatment of dependency disorders and recovery from them will be explored from two divergent perspectives: the reformative and the transformative. Current treatment modalities will be compared and contrasted in terms of their view of the individual in the social and clinical context. The class experience itself will serve as an intervention by challenging students to examine their existing ideas about treatment and recovery from dependency disorders. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

HS 172
PHYSIOLOGICAL EFFECTS OF ALCOHOL AND DRUGS
3/3/0
Focuses on physical and physiological effects of drugs and alcohol on the body. Also listed as HSC 172. Credit given in either area, not both. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

HS 173
FAMILY COUNSELING: APPROACHES TO ALCOHOL PROBLEMS/DRUG ABUSE
3/3/0
Designed to explore methods of assisting significant others whose lives are affected by alcoholics and drug addicts. The approach will be to analyze and examine the ideas and dynamics of those relationships and to develop practice strategies for the worker who counsels these persons. The approach will be highly experiential in format and students will participate in exercises that will lead to the development of these skills. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

HS 174
INTERVENTION AND REFERRAL TECHNIQUES
3/3/0
Intervention and referral techniques are designed to familiarize the student with strategies for intervention in crisis situations. The coursework will provide a framework whereby the student may apply what he/she has learned to a wide variety of situations. Students will also learn referral and networking techniques. Opportunities will be provided for students to learn from and meet with other community mental health professionals.

HS 175
SUBSTANCE ABUSE EDUCATION, PREVENTION, AND INTERVENTION
3/3/0
Reviews the history, theories, models, and state-of-the-art approaches to substance abuse education, prevention, and intervention. Provides experiential learning which will enable the students to explore and examine their own values and behaviors as they relate to the use and abuse of alcohol, drugs, eating disorders, and compulsive gambling. Public policies, media/information dissemination, ethnical and cultural-specific approaches, environmental risk reduction, and healthy alternatives to substance abuse will be presented and discussed.

HS 180
PROGRAM-MANAGEMENT TECHNIQUES WITHIN HUMAN SERVICES
3/3/0
An introductory course intended for individuals involved in human services and considering a career extending into management. The course will cover the general management concerns of program funding, planning, cash management, human resources, accountability, and community relations. Also listed as BUS 180. Credit to be given in either area, not both.

HS 181
INTRODUCTION TO EATING DISORDERS
3/3/0
This course will introduce students to the history, symptomatology, and treatment of anorexia nervosa, bulimia, and compulsive overeating. Other related areas covered include women’s issues, cultural differences, societal attitudes, the addiction cycle, and sexual abuse. Biological, psychoanalytic, behavioral, and other theoretical perspectives will be examined. Also presented are various referral sources and current availability in the field. This course is part of a paraprofessional educational program.

HS 182
SUBSTANCE ABUSE: ADOLESCENT TREATMENT & RECOVERY
3/3/0
A course designed to explore current adolescent substance abuse treatment and recovery strategies. Emphasis will be placed on physical, mental, psychological, emotional, and social growth issues as they relate to the abuse of drugs, eating disorders, and other addictions.
HS 184 3/3/0
MEDICAL ASPECTS OF EATING DISORDERS
This course identifies classification, epidemiology, etiology, and physiology of obesity, anorexia, compulsive eating and bulimia. The contemporary methods of assessment, treatment, and complications of obesity, anorexia, compulsive eating, and bulimia are to be examined. This course is part of a paraprofessional educational program. Also listed as HSC 184. Credit given in either area, not both. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

HS 185 3/3/0
THE BACKGROUND AND TREATMENT OF EATING DISORDERS
This course addresses assessment and diagnosis, functional treatment modalities across settings (inpatient/outpatient), and the use of community support systems for eating-disorders. The student will be provided with information from which he/she can establish a philosophy for eating disorders treatment that will be applied in classroom role-playing. The end goal will be understanding the person behind the eating disorder and providing quality treatment.

HS 186 3/3/0
SELF-ESTEEM STRATEGIES IN HUMAN SERVICES
Designed for those considering a career in human-services management. Theory and techniques are combined in this skills class to assist case managers, program directors, and others with goal-setting and evaluation. Focuses on issues of self-esteem, concept formation, problem-solving and decision-making for clients and/or staff.

HS 187 3/3/0
JUVENILE VIOLENCE,gangs, and victimization
Reviews the history of juvenile violence in the United States to its present day escalation. Theories of causative factors related to genetics, social-cultural transmission, psychology, behavior, and substance abuse will be presented and assessed. The role of the juvenile justice system, gang cultures, and victimization will be examined. Additionally, pragmatic solutions for lowering juvenile violence will be addressed.

HS 189 .5-4/5-4/5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

HS 190 3/3/0
INTRODUCTION TO THE HEALTH-CARE MARKETPLACE
Explores origins of managed care and employee-assistance programs and examines effectiveness of both systems. In addition, introduces students to networking, resource development, and entrepreneurship with focus on behavioral and chemical dependency health care.

HS 191 3/3/0
VIOLENCE IN THE FAMILY
Focus on the history and development of the dysfunctional family in contemporary society. The family will be looked at in a historical, sociological, psychological, and legal perspectives. Emphasis will be placed on specific types of family violence with time given to intervention techniques. The course will help students understand family dynamics as well as identify possible referral sources in the Saddleback Valley area. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

HS 201 3/3/0
CAREGIVER TRAINING I
Examines the role of home health-care providers and focuses on home health-care services, ethics, client rights, and documentation. Covers basic medical knowledge including anatomy and physiology. Emphasis placed on infection control and common diseases. Introduces principles of client observation, reporting and recording, communication, and psychosocial issues. Also listed as GER 201. Credit to be given in either area, not both.

HS 202 2/2/0
CAREGIVER TRAINING II
Examines the role of home health-care providers and focuses on personal care, nutrition, and special care needs. Examines basic medical knowledge including bladder and bowel care, incontinence, nonsterile dressings, and ostomy care. Examines principles of skin care, safety, and therapeutic exercise. Emphasis placed on special care skills, rehabilitation, and cleaning and care tasks in the home. Also listed as GER 202. Credit given in either area, not both.

HS 203 1.5/4.5/0
CAREGIVER CLINICAL TRAINING
Recommended Preparation: GER/HS 201 and 202 Provides students with the opportunity to apply caregiving theory and clinical skills in acute-care facilities, private duty, board-and-care homes, and private homes through supervised clinical experience. Also listed as GER 203. Credit given in either area, not both.

HS 210 1/1/0
CLIENT-RECORD DOCUMENTATION
This course introduces students to the required components of the client’s clinical record. Emphasis is on social history-taking and written treatment plans to be used as dynamic tools in the therapeutic process.

HS 255 3/3/0
MARKETING HEALTH CARE
This course is designed to introduce students to the concept of present-day health-care marketing. The course will present the complex issues in modern health-care delivery including the elements of marketing, the history of behavioral health-care marketing, and developing strategies to meet changing health-care service needs.

HS 266 3/3/0
DYSFUNCTIONAL FAMILIES/ACA ISSUES
This course provides students with a working knowledge of the characteristics and emotional effects of growing up in an alcoholic or other dysfunctional family system. The student will learn individual and group-facilitating techniques that will assist the recovery process of persons who have grown up in a dysfunctional family system.

HS 285 3/3/0
ETHICAL ISSUES/CLIENTS' RIGHTS
Introduction to those issues associated with the dignity and worth of the individual human being and the protection of fundamental human rights. Professional ethics, client rights, confidentiality, and other material related to the field of addictions will be explored. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

HS 289 .5-4/5-4/5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
Humanities

HUM 1 INTRODUCTION TO HUMANITIES 3/3/0
Recommended Preparation: Eligibility for ENG 1A
Introduces representative models of human achievement throughout history, with emphasis on an evolving consciousness of moral and aesthetic values associated with the Western mind. It focuses on selected literary and philosophical works as they reflect these values, and on parallel achievements in the visual arts, theater, and music. The course examines the relationship between the work and its author in its historical and cultural context, while distinguishing its purpose, its contemporary impact, and its current significance.

HUM 2 ORIGINS OF WESTERN CULTURE IN LITERATURE 3/3/0
Recommended Preparation: Eligibility for ENG 1A
Investigates the beginnings of Western culture from the time of Homer (c. 9th century B.C.) through the Roman period. The genesis of the Western conceptions of human nature, political theory, ethical notions, religion and art will be elaborated. The literary forms of Classical antiquity will be surveyed, including the Homeric epic, the Greek tragedy, and the comedy. The themes of the Classical authors will form many of the themes of the course, such as man and nature, man’s rights within society, reason and feeling, scientific knowledge and mystical insight, and the nature and basis of moral values.

HUM 3 THE CULTURE OF MEDIEVAL AND RENAISSANCE EUROPE 3/3/0
Recommended Preparation: Eligibility for ENG 1A
Identifies and studies characteristically Medieval and Renaissance ideas and feelings about a variety of important human experiences as represented across a broad spectrum of the fine arts, philosophy and history. Among the themes to be studied are: the supernatural and the natural, the individual and the state, codes of personal conduct (chivalry and courtly), the quest for new knowledge, the rise of the secular, and the emergence of a pluralistic universe. The transition from medieval to Renaissance consciousness will be emphasized.

HUM 4 CULTURE OF THE MODERN WORLD: 1700 TO THE PRESENT 3/3/0
Recommended Preparation: Eligibility for ENG 1A
Identifies and studies characteristically modern ideas and feelings about a variety of important human experiences as represented across the broad spectrum of the fine arts, philosophy, and history. Among the themes that may be studied are the following: The Enlightenment and the rise of Reason; the decline of the supernatural; the development of physics, biology and psychology and their impact on the modern world; the philosophy of individualism and the rise of the novel; Romanticism and the devaluation of reason; the emergence of an enigmatic universe; and the development of new attitudes toward home, work and the human community.

HUM 10A CULTURE, SCIENCE, AND SOCIETY I 3/3/0
Recommended Preparation: Admission to the Honors Program
The first course in a cross-disciplinary Honors sequence organized around a single theme or topic. Designed to explore the continuity of cultural traditions through a study of major works of history, literature, philosophy, social thought, fine arts, and the sciences, and to compare and contrast the modes of inquiry characteristic of those disciplines. Topics may vary from year to year. Taught seminar-style by a team of at least two instructors from two separate disciplines. Required of all students enrolled in the Honors Program.

HUM 10B CULTURE, SCIENCE, AND SOCIETY II 3/3/0
Recommended Preparation: Admission to the Honors Program
The second part of the cross-disciplinary Honors sequence organized around a single topic which may vary from year to year. Continues to explore cultural traditions and compare modes of inquiry through a study of major works among several disciplines. Required of all students enrolled in the Honors Program.

HUM 21 THE SEARCH FOR MEANING: IDEAS OF SELF ACROSS CULTURES 3/3/0
Recommended Preparation: Eligibility for ENG 1A
This course explores the notions of self and the changing faces of human nature as they shape and are shaped by prevailing social systems and cultural patterns across the world. Compares a variety of fictional and historical figures ranging from the Homeric hero to the Confucian aristocrat, from Joan of Arc to Sojourner Truth, in an attempt to shed light on our own struggle to understand who we are—and how we know who we are—in the contemporary scene. Draws upon the perspectives of disciplines such as history, science, philosophy, literature, and the arts. Also listed as IDS 1. Credit to be given in either area, not both.

HUM 22 GODS, CLOCKS, AND VISIONS 3/3/0
Recommended Preparation: Eligibility for ENG 1A
An examination of connections between religion, science and the arts in the growth of humanity. Views from many academic fields will provide an enriched perspective of the transition from prehistoric and primitive cultures to the expanded horizons of the 20th century. Knowledge and belief. Significant concepts, themes and individuals are chosen to represent changing times and places. Also listed as IDS 2. Credit to be given in either area, not both.

HUM 25 PLANET EARTH: CONTEMPORARY ISSUES AND CONTROVERSIES 3/3/0
Recommended Preparation: Eligibility for ENG 1A
An examination of issues confronting humanity on a global scale at present and into the foreseeable future. Social, educational, biological, economic, political and other contemporary perspectives will be treated. Topics developed may include group issues such as population growth, food supplies, energy and resources, terrorism and world order, racism and sexism, international affairs; and individual issues such as sex roles, power and powerlessness, individual life cycles, and psychology and metaphysics. Also listed as IDS 5. Credit to be given in either area, not both.

HUM 101 INTRODUCTION TO THE CULTURE OF ORANGE COUNTY 3/3/0
Recommended Preparation: Eligibility for ENG 1A
Provides an introduction to the study of fiction, film, drama, the arts, music and history by focusing on works by Orange Countians or works concerned with Orange County. This course may be team taught. Also listed as IDS 101. Credit to be given in either area, not both.
SADDLEBACK COLLEGE CATALOG 2002/03 203

VARSITY BASEBALL
IA 3 2/0/10

VARSITY BASKETBALL, MEN
IA 1 2/0/10

VARSITY FOOTBALL
IA 1 2/0/10

SPECIAL TOPICS

IA 4 2/0/10

VARSITY TRACK AND FIELD, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Track and Field. R E 2

IA 5 2/0/10

VARSITY CROSS COUNTRY, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Cross Country. R E 2

IA 6 2/0/10

VARSITY GOLF, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Golf. R E 2

IA 7 2/0/10

VARSITY WATER POLO, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Water Polo. R E 2

IA 8 2/0/10

VARSITY SWIMMING AND DIVING, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Swimming and Diving. R E 2

IA 9 2/0/10

VARSITY TENNIS, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Tennis. R E 2

IA 10 2/0/10

VARSITY VOLLEYBALL, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Volleyball. R E 2

IA 11 2/0/10

VARSITY SOFTBALL
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Softball. R E 2

IA 12 1 or 2/0/5 or 10

VARSITY BASKETBALL, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Basketball. Will be scheduled spring semester only. R E 3

IA 13 2/0/10

VARSITY TENNIS, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Tennis. R E 2

IA 14 2/0/10

VARSITY SWIMMING AND DIVING, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Swimming and Diving. R E 2

IA 15 2/0/10

VARSITY CROSS COUNTRY, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Cross Country. R E 2

IA 16 2/0/10

VARSITY WATER POLO, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Water Polo. R E 2

IA 17 2/0/10

VARSITY GOLF, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Golf. R E 2

IA 18 2/0/10

VARSITY VOLLEYBALL, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Volleyball. R E 2

IA 19 2/0/10

VARSITY SOCCER, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Soccer. R E 2

IA 19 2/0/10

SPECIAL TOPICS

IA 189 .5-4/5-4/5-9

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

INDEPENDENT STUDIES

IS 1 1-5/TBA

INDEPENDENT STUDY

Prerequisite: Approval of learning-contract proposal

Independent study (individual project) may be pursued in any division subject matter through contact with an instructor and the division dean for research, field experience, or skill development after completion of the introductory offering in the field of study. Prior to enrollment in independent study, the student and instructor shall prepare an academic written contract (“proposal for learning”) in cooperation with the division dean and present to the Office of Instruction for approval.

1 unit 48 clock hours
2 units 96 clock hours
3 units 144 clock hours
4 units 192 clock hours
5 units 240 clock hours

For courses listed in this catalog, a student may, because of special circumstances, petition to take the course on an individual independent-study basis. The independent study of a catalog-listed course petition must be approved by the instructor who will supervise the contract study as well as by the division dean and the Office of Instruction.

INTERCOLLEGIATE ATHLETICS

IA 1 2/0/10

VARSITY FOOTBALL
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Football. R E 2

IA 2 1 or 2/0/5 or 10

VARSITY BASKETBALL, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Basketball. Will be scheduled spring semester only. R E 3

IA 3 2/0/10

VARSITY BASEBALL
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Baseball. R E 2

IA 4 2/0/10

VARSITY TRACK AND FIELD, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Track and Field. R E 2

IA 5 2/0/10

VARSITY CROSS COUNTRY, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Cross Country. R E 2

IA 6 2/0/10

VARSITY GOLF, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Golf. R E 2

IA 7 2/0/10

VARSITY WATER POLO, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Water Polo. R E 2

IA 8 2/0/10

VARSITY SWIMMING AND DIVING, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Swimming and Diving. R E 2

IA 9 2/0/10

VARSITY TENNIS, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Tennis. R E 2

IA 10 2/0/10

VARSITY VOLLEYBALL, MEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Men’s Volleyball. R E 2

IA 11 2/0/10

VARSITY SOFTBALL
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Softball. R E 2

IA 12 1 or 2/0/5 or 10

VARSITY BASKETBALL, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Basketball. Will be scheduled spring semester only. R E 3

IA 13 2/0/10

VARSITY TENNIS, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Tennis. R E 2

IA 14 2/0/10

VARSITY SWIMMING AND DIVING, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Swimming and Diving. R E 2

IA 15 2/0/10

VARSITY CROSS COUNTRY, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Cross Country. R E 2

IA 16 2/0/10

VARSITY WATER POLO, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Water Polo. R E 2

IA 17 2/0/10

VARSITY GOLF, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Golf. R E 2

IA 18 2/0/10

VARSITY VOLLEYBALL, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Volleyball. R E 2

IA 19 2/0/10

VARSITY SOCCER, WOMEN
Limitation: Pass physical examination
Provides an opportunity for students to train and participate in Intercollegiate Women’s Soccer. R E 2

IA 19 2/0/10

SPECIAL TOPICS

IA 189 .5-4/5-4/5-9

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
**Interdisciplinary Studies**

**IDS 1**

**THE SEARCH FOR MEANING: IDEAS OF SELF ACROSS CULTURES**

Recommended Preparation: Eligibility for ENG 1A

This course explores the notions of self and the changing faces of human nature as they shape and are shaped by prevailing social systems and cultural patterns across the world. Compares a variety of fictional and historical figures ranging from the Homeric hero to the Confucian aristocrat, from Joan of Arc to Sojourner Truth, in an attempt to shed light on our own struggle to understand who we are—and how we know who we are—in the contemporary scene. Draws upon the perspectives of disciplines such as history, science, philosophy, literature, and the arts. May be team-taught. Also listed as HUM 21. Credit to be given in either area, not both.

**IDS 2**

**GODS, CLOCKS, AND VISIONS**

Recommended Preparation: Eligibility for ENG 1A

An examination of connections between religion, science and the arts in the growth of humanity. Views from many academic fields will provide an enriched perspective of the transition from prehistoric and primitive cultures to the expanded horizons of 20th-Century knowledge and belief. Significant concepts, themes and individuals are chosen to represent changing times and places. Also listed as HUM 22. Credit to be given in either area, not both.

**IDS 5**

**PLANET EARTH: CONTEMPORARY ISSUES AND CONTROVERSIES**

Recommended Preparation: Eligibility for ENG 1A

An examination of issues confronting humanity on a global scale at present and into the foreseeable future. Social, educational, biological, economic, political and other contemporary perspectives will be treated. Topics developed may include group issues such as population growth, food supplies, energy and resources, terrorism and world order racism and sexism, international affairs; and individual issues such as sex roles, power and powerlessness, individual life cycles, and psychology and metaphysics. Also listed as HUM 25. Credit given in either area not both.

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**Interior Design**

**ID 101**

**INTRODUCTION TO THE CULTURE OF ORANGE COUNTY**

Recommended Preparation: Eligibility for ENG 1A

Provides an introduction to the study of fiction, film, drama, the arts, music and history by focusing on works by Orange Countians or works concerned with Orange County. This course may be team taught. Also listed as HUM 101. Credit given in either area, not both.

**ID 189**

**SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

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**ID 110**

**FUNDAMENTALS OF INTERIOR DESIGN**

A study of the design elements and principles as related to interior environments. Analysis and critique of floor plans, furniture arrangement, color theory and coordination of color, texture, and pattern for human environments. An overview will be given to the aesthetic and functional assessment of interior furniture, floor, wall, window, illumination, and accessory treatments. (ID Regional Program #ID 100)

**ID 111**

**INTERIOR DESIGN STUDIO 1**

Recommended Preparation: Completion or concurrent enrollment in ID 110

This studio course is designed to apply concepts and theories presented in the lecture course, ID 110, Fundamentals of Interior Design. Emphasis is placed on the design process in developing solutions for design projects. (ID Regional Program #ID 105)

**ID 112**

**BEGINNING DRAFTING FOR INTERIORS**

Applications of methods and theory used for architectural drawings, including basic graphics and projections for design and working drawings. (ID Regional Program #ID 110)

**ID 113**

**INTERIOR DESIGN CAREERS**

A survey of the Interior Design profession, industry, related occupations, and work sites. The course will emphasize personal, educational, and professional qualifications required for entry into the Interior Design profession. (ID Regional Program #ID 120)

**ID 114**

**APPLIED COLOR AND DESIGN THEORY FOR INTERIOR DESIGN**

Basic color and design theory and application. Utilization of tools, materials, and equipment to develop technical skills applicable to interior, architectural, and other related fields of design. Exploration of cultural heritage and psychological implication of design. (ID Regional Program #ID 130)

**ID 115**

**COMPUTER-AIDED DESIGN/DRAFTING FOR INTERIOR DESIGN**

Recommended Preparation: ID 112

Introduces the basic skills, techniques, and uses for computer-aided design and drafting. (ID Regional Program #ID 140) R E 3

**ID 116**

**INTERIOR MATERIALS AND PRODUCTS**

Analysis, application, and evaluation of products and materials used in Interior Design. Includes interior textiles, furnishings, and finish materials and products. (ID Regional Program #ID 150)

**ID 121**

**SPACE PLANNING**

Recommended Preparation: ID 112

The application of programming, theory, and techniques in residential and commercial space planning. Skills in drafting and presentation techniques are emphasized in the studio. (ID Regional Program #ID 170)

**ID 122**

**HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS I**

The historical relationship between the decorative arts, period furniture, and interior architecture is illustrated in this overview of design heritage from antiquity through the 18th century in Europe. Emphasis is placed on style development as it relates to social, economic, and political influences. (ID Regional Program #ID 180)

**ID 123**

**INTERIOR DESIGN ILLUSTRATION**

Recommended Preparation: ID 112

Application of the methods, techniques, and tools used for illustrating interior spaces and products. (ID Regional Program #ID 200)
ID 125 3/3/0
HISTORY OF INTERIOR ARCHITECTURE AND FURNISHINGS II

The historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of design heritage. This course covers the 19th and 20th centuries in Europe and 17th through 20th centuries in America and analyzes the influences as well as changes in design to the present. Emphasis is placed on style development as it relates to social, economic, and political forces. (ID Regional Program #ID 190)

ID 126 2/1/3
INTERIOR DESIGN STUDIO II

Recommended Preparation: ID 114 and 121
Develop, analyze, and apply design concepts to interior environments. Universal design, environmentally conscious design, space planning, lighting systems, interior components, architectural elements, and specifications writing will be integrated into research projects emphasizing a problem-solving approach. (ID Regional Program #ID 215)

ID 127 3/3/0
FUNDAMENTALS OF LIGHTING

Recommended Preparation: ID 110 and 112
The fundamentals of lighting, design, theory, and application including the history and vocabulary of lighting. Topics to be explored are: how light affects color and vision; incandescent, fluorescent, and high intensity discharge lamps; lighting techniques; codes; and energy efficient lighting practices. (ID Regional Program #ID 210)

ID 128 3/3/0
BUSINESS AND PROFESSIONAL PRACTICE FOR INTERIOR DESIGN

Recommended Preparation: ID 113
The business and professional management of an interior design practice including legal issues, project management, and business practices. (ID Regional Program #ID 230)

ID 129 1/1/0
INTERIOR DESIGN INTERNSHIP

Corequisite: CWE 168/169
Supervised and educationally-directed internship. Weekly lectures will relate on-the-job experiences with academic program. To be taken in the final semester of program. (ID Regional Program #ID 240)

ID 133 2/1/3
RENDERING AND RAPID VISUALIZATION FOR INTERIOR DESIGN

Recommended Preparation: Interior Design 123
Application of the methods, techniques, and tools used for illustrating interior spaces and products with an emphasis placed on rapid production. (ID Regional Program #ID 133)

ID 189 .5-4/.5-4/.5-9
SPECIAL TOPICS

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ID 210 2/1/3
INTERIOR DESIGN STUDIO III

Recommended Preparation: ID 126 and 133
Analysis and application of the design process to space planning, materials and finish choices, codes application, and selection of specialized equipment unique to planning hospitality spaces. Design solutions to hospitality will be developed in the studio. (ID Regional Program #ID 286)

ID 211 2/2/0
CODES AND SPECIFICATIONS FOR INTERIOR DESIGN

Explores federal, state, and local regulations, codes, and specifications concerning life-safety issues, barrier-free access (American Disabilities Act), and universal design requirements relative to residential and contract design. Special attention is given to performance, health-safety, and universal design when estimating and preparing specifications for interior materials and products. (ID Regional Program # ID 250)

ID 212 3/1/4
ADVANCED COMPUTER-AIDED DESIGN/ DRAFTING FOR INTERIOR DESIGN

Recommended Preparation: ID 115
Develops proficiency and skills in two and three-dimensional computer-aided design and drafting for Interior Design applications. (ID Regional Program # IDSN 270) R E 3

ID 213 2/1/3
INTERIOR DESIGN STUDIO IV

Recommended Preparation: ID 126 and 133
Analysis and application of the design process to space planning, materials and finish choices, codes application, and selection of specialized equipment unique to planning health-care spaces. Design solutions to health-care will be developed in the studio. (ID Regional Program # IDSN 275)

ID 289 .5-4/.5-4/.5-9
SPECIAL TOPICS

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

ITA 1 5/5/0
ELEMENTARY ITALIAN

Corequisite: ITA 999A
Recommended Preparation: College level reading ability
Designed to develop the fundamentals of communicative competence in colloquial Italian. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years high school Italian.

ITA 1A 2.5/3/0
INTRODUCTORY ELEMENTARY ITALIAN

Corequisite: ITA 999A
Recommended Preparation: College level reading ability
Designed to develop fundamentals of communicative competence in daily spoken Italian. Elementary reading and writing will be introduced, as well as fundamental aspects of culture. Introductory Elementary Italian ITA 1A is equivalent to the first half of a regular elementary language course. Upon completion of its continuation, ITA 1B, students may enroll in the second semester of a normally paced language program. Combination of ITA 1A and 1B equivalent to two years high school Italian.

ITA 1B 2.5/3/0
CONTINUING ELEMENTARY ITALIAN

Corequisite: ITA 999A
Recommended Preparation: ITA 1A or one year of high school Italian
Reviews and expands the fundamentals of communicative competence in daily spoken Italian. There is increased emphasis on reading and writing skills, as well as fundamental aspects of culture. 1B is equivalent to the second half of a regular elementary language course. Upon completion, students may enroll in ITA 2. Combination of ITA 1A and 1B equivalent to two years high school Italian.

ITA 2 5/5/0
ELEMENTARY ITALIAN

Corequisite: ITA 999A
Recommended Preparation: ITA 1 or 1B or two years of high school Italian
Designed to further the fundamentals of communicative competence in daily spoken Italian. Although the focus remains on listening comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester.
<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course Number</th>
<th>Course Title</th>
<th>Hours Per Week</th>
<th>Lecture</th>
<th>Lab</th>
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<tbody>
<tr>
<td>ITA 3</td>
<td>3</td>
<td>INTERMEDIATE ITALIAN</td>
<td>5/5/0</td>
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<td>Corequisite: ITA 999B</td>
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<td>Recommended Preparation: ITA 2 or three years of high school Italian</td>
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<td></td>
<td></td>
<td>Reviews the fundamentals with further study of the Italian language and culture.</td>
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<td>ITA 4</td>
<td>4</td>
<td>INTERMEDIATE ITALIAN</td>
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<td>Corequisite: ITA 999B</td>
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<td>Recommended Preparation: ITA 3 or four years of high school Italian</td>
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<td>Concentrates on the development of fluency in the skills needed to communicate in Italian. Further study of cultural topics.</td>
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<td>ITA 10</td>
<td>10</td>
<td>INTERMEDIATE CONVERSATIONAL ITALIAN</td>
<td>3/3/0</td>
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<td>Designed to develop fluency in Italian. The emphasis is on both formal and informal expression and conversation in the language.</td>
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<td>ITA 21</td>
<td>21</td>
<td>INTRODUCTION TO ITALIAN CULTURE</td>
<td>3/3/0</td>
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<td></td>
<td>Recommended Preparation: College level reading ability</td>
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<td>Italian 21 presents the many aspects of Italian culture; history, philosophy, political ideas, literature, music, science, and customs and Italy’s influence on and contribution to the civilization of America and the world. Conducted in English. No prior study of Italian language or culture required.</td>
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<td>ITA 999A</td>
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<td>ITALIAN LANGUAGE LAB</td>
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<td>Corequisite: ITA 1, 1A, 1B, 2</td>
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<td>Requires concurrent enrollment in designated Elementary Italian courses. Enhances and provides practice in skills learned in Elementary Italian language courses. Minimum one hour per week required.</td>
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<td>JA 1</td>
<td>1</td>
<td>ELEMENTARY JAPANESE</td>
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<td>Corequisite: JA 999A</td>
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<td>Recommended Preparation: College level reading ability</td>
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<td>Designed to develop the fundamentals of communicative competence in daily spoken Japanese. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture.</td>
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<td>JA 2</td>
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<td>ELEMENTARY JAPANESE</td>
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<td>Corequisite: JA 999A</td>
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<td>Recommended Preparation: JA 1 or 1B or two years of high school Japanese</td>
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<td>Designed to further the fundamentals of communicative competence in daily spoken Japanese. Although the focus remains on oral skills and aural comprehension, reading and writing skills will be expanded with introduction of 100 Kanji (Chinese Characters) in addition to Kana, which was already mastered by the students in previous course(s). Additional cultural topics will also be covered.</td>
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<td>JA 3</td>
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<td>INTERMEDIATE JAPANESE</td>
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<td>Corequisite: JA 999B</td>
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<td>Reviews the fundamentals with further study of the Japanese language and culture. Reading and writing will be expanded, with introduction of 100 additional Kanji (Chinese characters) beyond JA 2.</td>
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<td>JA 4</td>
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<td>INTERMEDIATE JAPANESE</td>
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<td>Corequisite: JA 999B</td>
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<td>Concentrates on the development of fluency in the skills needed to communicate in Japanese. Reading and writing skills will be expanded with the introduction of 129 Kanji (Chinese characters) beyond JA 3. Further study of cultural topics.</td>
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<tr>
<td>JA 21</td>
<td>21</td>
<td>INTRODUCTION TO JAPANESE CULTURE</td>
<td>3/3/0</td>
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<td>Recommended Preparation: College level reading ability</td>
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<td>A lecture and discussion course covering a variety of aspects of Japanese culture. Areas of study include geography, history, literature, art, philosophy, religion, and customs of the people. Conducted in English. No prior study of Japanese language or culture required.</td>
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<td>JA 250</td>
<td>250</td>
<td>PRACTICAL JAPANESE</td>
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<td>A basic course in Japanese emphasizing conversational skills as applied to everyday situations including business, travel, and related topics. Consideration also given to cultural topics. Assumes no prior knowledge of the language.</td>
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<tr>
<td>JA 999A</td>
<td>999A</td>
<td>JAPANESE LANGUAGE LAB</td>
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<td>Corequisite: JA 3, 4</td>
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<tr>
<td>JRN 1</td>
<td>1</td>
<td>MASS MEDIA AND SOCIETY</td>
<td>3/3/0</td>
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<td>A study of mass media and media technology as they apply to society. Includes a study of media functions, responsibilities, practices, and influences, as well as a study of media law, ethics, history, development, and potential for the future. The course is designed to increase student awareness of the impact of mass media in shaping society. Also listed as CA 1. Credit given in either area, not both. Course may be offered by mediatised mode of instruction.</td>
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<tr>
<td>JRN 2</td>
<td>2</td>
<td>NEWS WRITING</td>
<td>3/3/0</td>
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<td>Prerequisite: Eligibility for ENG 1A or completion of ENG 200</td>
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<td>Emphasizes news writing and reporting, methods of news gathering, organization and writing of articles. Includes the interpretation of significant news and study techniques of reporting in depth.</td>
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</tbody>
</table>
PHOTO-COMMUNICATION TECHNIQUES
JRN 181 3/2/2
Recommended Preparation: PHOT 55
Application of photo-communication techniques practiced in the various fields of photography for publication. Assignments include taking and processing pictures intended for publication. Assignments and projects are jointly coordinated by the journalism and photography departments.

INTRODUCTION TO PUBLIC RELATIONS
JRN 130 3/3/0
Recommended Preparation: JRN 2
An introduction to the profession of public relations including business, industry, government and the non-profit sector. Studies the processes, practices, techniques and opportunities in public relations, especially in connection with writing of advertising campaigns.

PHOTO-COMMUNICATION TECHNIQUES
JRN 181 3/2/2
Recommended Preparation: PHOT 55
Application of photo-communication techniques practiced in the various fields of photography for publication. Assignments include taking and processing pictures intended for publication. Assignments and projects are jointly coordinated by the journalism and photography departments.

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JRN 181 3/2/2
Recommended Preparation: PHOT 55
Application of photo-communication techniques practiced in the various fields of photography for publication. Assignments include taking and processing pictures intended for publication. Assignments and projects are jointly coordinated by the journalism and photography departments.

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Guidelines for Enrollment in Mathematics

MATHEMATICS COURSE SEQUENCE

PRE-ALGEBRA
MATH 351

BEGINNING ALGEBRA
MATH 251

INTERMEDIATE ALGEBRA
MATH 253

COLLEGE ALGEBRA
MATH 7

FINITE MATH
MATH 9

STATISTICS
MATH 10

TRIGONOMETRY
MATH 124

PRE-CALCULUS MATHEMATICS
MATH 2

CALCULUS
MATH 3A

MATH 3B

ELEM. DIFFERENTIAL EQUATIONS
MATH 24

ANALYTIC GEOMETRY AND CALCULUS
MATH 3A

Prerequisite: MATH 2

Basic concepts of analytic geometry; limits and continuity; differentiation of algebraic functions with applications to graphing, solving max-min problems, and using Newton’s method; anti-differentiation; differentiation and integration of trigonometric, exponential, and logarithmic functions; integration applications including area under a curve, volume of revolution, work, liquid pressure, area of surface of revolution, and length of an arc.

ANALYTIC GEOMETRY AND CALCULUS
MATH 3B

Prerequisite: MATH 3A

Further applications in integration including integration and differentiation of: trigonometric, exponential, logarithmic functions, inverse trigonometric and hyperbolic functions; techniques of integration; and improper integrals. Indeterminate forms of limits, infinite series, Taylor’s formula, rotations and translations in the plane, polar coordinates, and equations of conics will be included.

Math

MATH 2
PRE-CALCULUS MATHEMATICS

4/5/0

Prerequisite: MATH 124
This is a pre-calculus course including the elements of college algebra. Topics covered include: equations and inequalities, relations and functions, polynomials and rational functions, matrices and determinants, sequences and limits, trigonometric functions, the binomial expansion, curve sketching techniques, DeMoivre’s Theorem and complex numbers.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3C</td>
<td>Analytic Geometry and Calculus</td>
<td>4/5/0</td>
<td>The study of vectors and parametric equations, partial differentiation, functions of two or more variables, gradients, higher-order derivatives, multiple integrals, cylindrical and spherical coordinates, vector functions, and their derivatives, vector fields, surface and line integrals, theorems of Green and Stokes.</td>
</tr>
<tr>
<td>MATH 7</td>
<td>College Algebra</td>
<td>4/5/0</td>
<td>Polynomial, exponential, and logarithmic functions. Polynomial equations, matrices, determinants, and systems of linear equations. Sequences, series, mathematical induction, permutations, combinations, the binomial theorem, and conic sections.</td>
</tr>
<tr>
<td>MATH 9</td>
<td>Finite Mathematics</td>
<td>3/3/3</td>
<td>The study of linear functions, matrices, vectors and these topics as they apply to linear programming techniques. The study of sets, logic, counting and applications of these topics to probability and stochastic processes. The study of computers and programming as related to problem-solving in all of the above topics as well as to the representation of numerical concepts in a finite way.</td>
</tr>
<tr>
<td>MATH 10</td>
<td>Introduction to Statistics</td>
<td>3/3/3</td>
<td>Covers descriptive statistics, probability theory, and inferential statistics. Topics covered include: tabular and graphical representation of data, counting principles, permutations, combinations, rules of probability, continuous and discrete probability distributions, sampling distributions, the central limit theorem, estimating population parameters, hypothesis testing, correlation, regression, contingency tables, and chi-square. Applications are selected from the fields of business, economics, life science, social science, and physical science.</td>
</tr>
<tr>
<td>MATH 11</td>
<td>Analytic Geometry and Calculus</td>
<td>4/5/0</td>
<td>A review of algebra topics. Matrix algebra, Gaussian-Jordan elimination, inverse of square matrix, determinants, the calculus topics of limits, derivatives, integrals, including measures of central tendency, continuous and normal density functions, differential equations as applied to one or more variable functions will be studied. Applications of these topics to the fields of business, economics, social and biological sciences will be stressed.</td>
</tr>
<tr>
<td>MATH 24</td>
<td>Elementary Differential Equations</td>
<td>3/4/0</td>
<td>Includes the study of first, second, and higher order linear differential equations. Methods include variation of parameters, Laplace transforms, and series solutions. Topics also include the study of systems of linear ordinary differential equations and an introduction to partial differential equations by separation of variables.</td>
</tr>
<tr>
<td>MATH 26</td>
<td>Introduction to Linear Algebra</td>
<td>3/4/0</td>
<td>Includes the study of vectors, vector spaces and subspaces, matrices, systems of linear equations, dimension, determinants, eigenvalues, and linear transformations.</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Trigonometry</td>
<td>3/3/3</td>
<td>An introduction to trigonometric functions with emphasis on both the unit circle and the right triangle methodologies.</td>
</tr>
<tr>
<td>MATH 189</td>
<td>Special Topics</td>
<td>5-4/4-5-4-5-9</td>
<td>The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course.</td>
</tr>
<tr>
<td>MATH 253</td>
<td>Intermediate Algebra</td>
<td>4/5/0</td>
<td>Further study of the real-number system, open sentences in one variable, polynomials and factoring, systems of linear equations, functions and sequences, rational numbers and functions, irrational and complex numbers, quadratic equations and functions, exponential and logarithmic functions, quadratic relations and systems.</td>
</tr>
<tr>
<td>MATH 289</td>
<td>Special Topics</td>
<td>.5-.4/.5-.4/.5-.9</td>
<td>The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course.</td>
</tr>
<tr>
<td>MATH 310</td>
<td>Bridging the Gap into College: MATH 3</td>
<td>1/1/0</td>
<td>A summer bridge course to introduce the mathematics curriculum at Saddleback College to graduating high school seniors. Provides approaches to studying mathematics, as well as an introduction to the following topics: adding, subtracting, and comparing fractions the easy way; applying fractions to simple equation-solving and estimating using ratios; calculating pi as a ratio; exploring patterns in mathematics, both algebraic and geometric; graphing in two dimensions by hand and with the use of computers; utilization of calculators; and exploring the parabola—equations, graphs, applications, experimental derivation, and validation through data collection. Does not satisfy the math requirement for AA/AS degree and does not transfer.</td>
</tr>
<tr>
<td>MATH 351</td>
<td>Pre-Algebra Mathematics</td>
<td>3/3/0</td>
<td>Designed for those needing a rapid review of arithmetic before taking a more advanced course. The fundamentals of arithmetic computations with whole numbers and decimals will be discussed very briefly, computations fractions and integers will be covered in depth. Problem solving techniques involving ratio, proportion, percent, geometric formulas, and linear algebraic equations will be applied to real-world situations.</td>
</tr>
<tr>
<td>MATH 924</td>
<td>Differential Equations Laboratory</td>
<td>.5/.0/3</td>
<td>An investigation of the characteristics of the solutions of ordinary differential equations using a computerized solver.</td>
</tr>
</tbody>
</table>
**Marine Science**

**MS 2 PHYSICAL AND CHEMICAL OCEANOGRAPHY**
Recommended Preparation: MS 20
A study of the physical and chemical aspects of oceanography. Physical oceanography topics include the dynamics of waves, tides, ocean circulation, and the interaction of the ocean and atmosphere. Chemical oceanography topics include the study of the properties and chemistry of both fresh and ocean water, sea-water density and its impact on the physical structure of the oceans, and man’s role in polluting the oceans. Attention will be given to laboratory and field techniques in physical oceanography. Field trips will be required.

**MS 4 SOUTHERN CALIFORNIA COASTAL ECOLOGY**
Emphasizes subtidal, tidal, coastal and estuarine environments and man’s impact on the ecosystem. Field trips may be required to fulfill the objectives of this course.

**MS 20 INTRODUCTION TO OCEANOGRAPHY**
Study of the physical and chemical properties of oceans, with a brief study of the geological and biological operations of the oceanographer. The current thinking of the oceans as economic and natural resources will be stressed including the current techniques for measurement of the physical and chemical properties of the salt-water environment. The laboratory will focus on the basic instrumentation of the oceanographer, beginning with the simplest form. May be offered by mediated mode of instruction.

**MS 100 MARINE SCIENCE RESEARCH TECHNIQUES**
Recommended Preparation: MS 2 or GEOL 5
For the self-motivated student who plans either further academic education or a technical career, the valuable experience of conducting a research project is offered. Classroom and field experience may include: observation or research projects currently in progress; the use of Scripps and other research libraries; design and development of equipment and experiments; the acquisition, analysis, and presentation of data.

**Course Course Course No. of Per Per**

<table>
<thead>
<tr>
<th>Course Prefix</th>
<th>Course No.</th>
<th>Title</th>
<th>Hours</th>
<th>Per Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 220</td>
<td>Introduction to Financial Planning</td>
<td>2/3/0</td>
<td>3/3/0</td>
<td></td>
</tr>
<tr>
<td>MS 171, A</td>
<td>MARINE SCIENCE FIELD STUDY: SANTA CATALINA ISLAND</td>
<td>1 or 2/5 or 1/1.5 or 3</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>MS 189</td>
<td>SPECIAL TOPICS</td>
<td>.5/4/.5-.4/5-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MST 201</td>
<td>MARLINSPIKE SEAMANSHIP</td>
<td>2/1/2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MST 202</td>
<td>MARINE WEATHER</td>
<td>2/2/0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MST 203</td>
<td>COASTAL NAVIGATION</td>
<td>3/2/2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MST 210</td>
<td>CELESTIAL NAVIGATION</td>
<td>3/2/2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MST 211</td>
<td>SAILING, SEAMANSHIP, AND BOATING SAFETY</td>
<td>3/2/2</td>
<td></td>
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</tr>
<tr>
<td>MST 212</td>
<td>ADVANCED OCEAN SAILING AND CRUISING</td>
<td>3/2/2</td>
<td></td>
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<tr>
<td>MST 213</td>
<td>VESSEL COMMAND AND ORGANIZATION</td>
<td>3/2/2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MST 214</td>
<td>USCG MASTER LICENSE AND EXAMINATION PREPARATION COURSE</td>
<td>3/2/2</td>
<td></td>
<td></td>
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</table>

**Introduction to Financial Planning**
Introduces students to concepts and techniques practiced in the field on water and land at Santa Catalina Island and adjacent island and coastal areas. Theoretical emphasis and course content will vary. Trips will minimize conflict with other classes.

**Special Topics**
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**Marine Science Technology**

**MST 201 MARLINSPIKE SEAMANSHIP**
This course will develop self-reliance and seamanship by teaching the fundamentals of knotting, splicing, sail repair, deck seamanship, emergency repair, rigging, and fiberglass and wooden boat maintenance. Also, this course will be enriched with historic nautical lore to help bridge the gap between traditional and modern boat seamanship. R E 3

**MST 202 MARINE WEATHER**
Basic principles of meteorology and certain related aspects of oceanography presented. Intended for individuals in boating and marine-related fields where knowledge of weather and sea conditions is essential for safe operation of all sizes of ocean-going craft. R E 1

**MST 210 COASTAL NAVIGATION**
Course includes in-depth study and application of chart use, use of navigation aids, plotting, dead-reckoning, piloting, electronic navigation, understanding currents and tides, and determination of position by various means. R E 2

**MST 211 CELESTIAL NAVIGATION**
Course provides a comprehensive coverage of celestial navigation principles intended to develop practical transoceanic navigational skills. Included will be great circle sailing concepts, sight reduction tables, modern line-of position techniques, the sextant and chronometer, and at-sea navigational cruises. R E 2

**MST 212 SAILING, SEAMANSHIP, AND BOATING SAFETY**
Includes techniques of small-boat handling, rules of the road, coastal piloting, safety at sea, and small-craft maintenance. Emphasis is placed on practical experience gained during at-sea laboratory sessions aboard the college fleet of Capri 14’s. Course not intended to meet Natural Science general education requirements. R E 3

**MST 213 ADVANCED OCEAN SAILING AND CRUISING**
The theory and practical seamanship aspects of maneuvering auxiliary sailboats under power and sail. Includes theory and practice of efficient sailing, safe anchoring, docking and mooring, meeting emergency situations under sail, and planned response to local weather conditions. Also reviews rules of the road, piloting, and navigational skills. Information and experience gained will qualify student as boat owner or crew member for knowledgeable sailing in local coastal and Channel Island waters. R E 3

**MST 215 VESSEL COMMAND AND ORGANIZATION**
Course prepares advanced students for command and organization of crew, provisions, and equipment on board larger auxiliary sailing craft during coastal cruises and among the Channel Islands. Students will supervise preparations for and conduct of actual cruises. Includes supervision of efficient sailing, safe anchoring, docking and mooring, emergency situations under sail, and planned response to local weather conditions. Also practical application of rules of the road, piloting, and navigational skills. R E 3

**MST 216 USCG MASTER LICENSE AND EXAMINATION PREPARATION COURSE**
Prepares students to pass a United States Coast Guard (USCG) examination to receive a USCG Master or Mate license with a scope of 25-100 gross tons. Students also learn to select the appropriate license grade and scope and how to document the sea time (experience) the USCG requires. R E 2
MA 189
SPECIAL TOPICS
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MA 190
MEDICAL TERMINOLOGY
Application and orientation to medical terminology, basic structure of medical terms and their components—roots, prefixes, suffixes and combining forms. Emphasis on analysis, meaning, spelling and pronunciation to building a medical vocabulary applicable to the specialties of medicine, major diseases and terms used on physical examination, diagnosis and treatment.

MA 210
INTRODUCTION TO MEDICAL OR LABORATORY ASSISTING
Provides a core curriculum for the medical office or clinical laboratory assistant program. Students will receive an introduction to the health-care field and instruction in medical ethics, legal aspects, and the body in health and disease.

MA 211A
MEDICAL RECEPTION TECHNIQUES
Provides development of selected medical front-office skills. Instruction is given in the primary reception techniques of oral communication, telephone procedures, and scheduling systems, including referral appointments.

MA 211B
PHYSICAL-EXAMINATION PROCEDURES
Provides for the development of selected medical-office financial skills. Instruction is given in medical billing, credit arrangements, collections, bookkeeping, and banking procedures.

MA 212A
MEDICAL OFFICE FINANCIAL PROCEDURES
Provides for the development of selected medical front-office financial skills. Students will receive instruction in medical billing, credit arrangements, collections, bookkeeping, and banking procedures.

MA 212B
MEDICAL OFFICE LABORATORY PROCEDURES
Provides for the development of selected medical office laboratory skills. Instruction is given in the techniques necessary to perform the procedures related to urine and blood testing, including venipuncture. An introduction to radiology and physical therapy is provided to assist the student in scheduling and patient instruction. Meets state requirements for medical assistant phlebotomy certificate.

MA 213A
MEDICAL RECORDS MANAGEMENT
Provides for the development of selected medical front-office skills. Instruction is given in medical histories and physical examinations.

MA 213B
MEDICAL ASEPSIS AND SURGICAL PROCEDURES
Provides for the development of selected medical-office clinical skills. Instruction is given in medical histories and physical examinations.

MA 214A
BASICS IN MEDICAL INSURANCE
Provides for the development of basic medical billing procedures. Instruction is given in medical histories and physical examinations.

MA 214B
MEDICATION ADMINISTRATION FOR MEDICAL ASSISTANTS
Provides for the development of selected medical-office skills. Instruction is given in medical histories and physical examinations.

MA 215A
CPT-4 & ICD-9-CM MEDICAL-INSURANCE CODING
Provides basic instruction and practice in CPT-4 and ICD-9-CM procedural and diagnostic coding. Gives essential coding information for students interested in insurance billing. Focuses on newest coding techniques and reimbursement strategies.
MA 217A 3/9/0
MEDICAL ASSISTING CLINICAL EXPERIENCE—ADMINISTRATIVE
Prerequisite: Enrollment in Medical Assistant Program and completion of MA 200, 210, 211A, 212A, 213A, 214A, 215A, 260 and HSC 222
Provides supervised directed practice in a physician's office or medical clinic. This experience will emphasize development of medical front-office skills with consideration for ethical and legal concepts. Scheduled class sessions will assist students in dealing with problems encountered in the work-experience setting.

MA 217B 3/9/0
MEDICAL ASSISTING CLINICAL EXPERIENCE—CLINICAL
Prerequisite: Enrollment in Medical Assistant Program and completion of MA 200, 210, 211B, 212B, 213B, 214B, 218B, 260 AND HSC 222
Provides supervised directed practice in a physician's office or medical clinic. This experience will emphasize development of clinical back-office skills with consideration for ethical and legal concepts. Scheduled class sessions will assist the student in dealing with problems encountered in the work-experience setting.

MA 217C 3/9/0
MEDICAL ASSISTING CLINICAL EXPERIENCE—COMPREHENSIVE
Prerequisite: Enrollment in Medical Assistant Program and completion of HSC 222, 260; MA 200, 210, 211A, 211B, 212A, 212B, 213A, 213B, 214A, 214B, 215A and 218B
Provides supervised directed practice in a physician's office or medical clinic. This experience will emphasize development of medical front-office and clinical back-office skills with consideration for ethical and legal concepts. Scheduled class sessions will assist the student in dealing with problems encountered in the work-experience setting.

MA 218B 2/1/2
ELECTROCARDIOGRAPHY FOR THE MEDICAL ASSISTANT
Provides basic instruction in electrocardiography theory and technique for the clinical medical assistant or electrocardiographer. Includes a review of the structure and function of the heart, the electrocardiogram and its function, and the correct technique for performing an electrocardiogram with student “hands-on” involvement.

MA 230 3/3/0
MEDICAL OFFICE MANAGER SKILLS
Develops medical office managerial skills with emphasis on supervisory responsibilities, competency-based management, role change, and strengthening the role of the medical office manager. Practice building communication, motivation, employee selection, training, retention, and meeting physician and employee needs are included.

MA 234 1.5/1.5/0
LEGAL AND ETHICAL PRACTICES FOR THE MEDICAL OFFICE MANAGER
Develops risk-management techniques for selected legal and ethical issues in the medical office. Includes medical malpractice, employee theft, cost containment, and safety. The role of the medical office manager in litigation is discussed, as well as employee rights and benefits. Public duties such as mandatory reporting and patient confidentiality are included.

MA 260 1.5/1.5/0
COMPUTER APPLICATIONS FOR HEALTH-CARE PERSONNEL
Prepares health science and nursing students to perform patient simulation using microcomputers. Provides orientation to hospital and office-based applications, including word processing, database systems, electronic spreadsheets and hospital information systems. Also listed as HSC 260. Credit given in either area, not both.

MA 289 .5-4/.5-5/9
SPECIAL TOPICS
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MUS 1 3/3/0
THE BASICS OF MUSIC
Emphasizing the principles and procedures of music: rhythm and pitch notation, scales (major, minor, modal), key signatures, intervals, chord structures, sight-singing, dictation, and keyboard. Recommended for all music majors. Open to all students. Partially fulfills Humanities requirement for all students.

MUS 10 5/5/0
HARMONY I
Recommended Preparation: MUS 1 or Proficiency Exam
An intensive study of diatonic harmony in major and minor modes, harmonization of a given melody, non-harmonic tones; dominant seventh chords, cadential six-four chords, simple form; and analysis. Writing, singing, and the recognition of diatonic melodies and harmonies; rhythmic recognition and dictation; and keyboard harmony. Required of all music majors.

MUS 11 5/5/0
HARMONY II
Recommended Preparation: MUS 10
Study of diatonic harmony in major and minor modes, linear six-four chords, diatonic seventh chords, modal interchange, secondarydominants, modulation, form, analysis, and composition. Sight-singing and dictation of diatonic melodies in two-parts, harmonic and rhythmic dictation, recognition of altered chords, and keyboard harmony. Required of all music majors.
INTRODUCTION TO WORLD MUSIC
MUS   23 3/3/0
A survey of the music of the world’s peoples, including North, Central, and South American, African, European, Indonesian, and Asian musics. This course will also cover basic ethnomusicological research skills.

MUSIC APPRECIATION
MUS   20 3/3/0
Basic forms and their recognition by the student and a survey of important composers and their works from the Baroque period through the 20th century. Stylistic concepts for each period will be studied and demonstrated. Open to all students. Applies toward the humanities requirement. Course may be offered by mediated mode of instruction.

MUS  24 MUSIC OF OUR CENTURY
MUS   24 3/3/0
A study of a cross-section of 20th century music with a special emphasis on American composers. A study of the music, musical styles, and major composers of classic folk, pop, protest, rock, jazz, and film music. The stylistic concepts used by such composers as Stravinsky, Copland, Gershwin, and Bernstein will be examined and demonstrated. The musical life and contributions of each composer will be studied. Course may be offered by mediated mode of instruction.

MUS  25 MUSIC HISTORY: TO MOZART
MUS   25 3/3/0
A study of musical styles and forms found in Western music from the beginning of the Christian era to the time of Mozart (c. 1750). Emphasis will be on the composers, styles, and forms of Medieval, Renaissance, and Baroque music with supplementary historical and biographical details pertinent to placing the music into the flow of Western culture. Required of all music majors but applies towards the Humanities requirement for all students.

MUS  26 MUSIC HISTORY: SINCE MOZART
MUS   26 3/3/0
A study of musical styles and forms found in Western music from the time of Mozart (c. 1750) to the present. Emphasis will be on the composers, styles and forms of Classic, Romantic, and Contemporary music. Required of all music majors; applies toward Humanities requirement for all students.

MUS  27 HISTORY OF JAZZ
MUS   27 3/3/0
A study of the elements of jazz tracing the development and evolution of the styles and structures of jazz from its beginning to the present time. Course may be offered by mediated mode of instruction.

MUS  28 HISTORY OF ROCK
MUS   28 3/3/0
A study of the elements of rock tracing the development and evolution of the styles and structures of rock, including sociological and political aspects of the idiom, from its beginning to the present time. Course may be offered by mediated mode of instruction.

MUS  29 WOMEN, MUSIC, AND SOCIETY
MUS   29 3/3/0
A historical/societal survey of women musicians/composers from the Middle Ages to the present. The course will deal with a historical view of women’s place as creative and representative artists, the societal and political influences that governed their existence and their music, and on the actual music produced by women composers.

MUS  31 BAROQUE SOCIETY
MUS   31 2/2/4
Limitation: Audition with college staff
This ensemble will perform major works for chorus and orchestra from the 17th and early 18th centuries, primarily the mass and cantata repertoire of Western Europe. Emphasis is placed on recent research in authentic performance practices and use of early instruments when available. Study of the historical perspective of the role of the Reformation and the rise of the middle class in Europe in the development of these genres is included. Different literature will be performed each semester. No more than four units apply toward AA degree outside music major. R E 3

MUS  32 ORATORIO SOCIETY
MUS   32 2/2/4
Limitation: Audition with college staff
Choral/orchestral performance of the oratorio repertoire of the late 18th and 19th centuries is offered. The repertoire includes oratorios of Handel, Haydn, Mendelssohn and other composers of the period. Rehearsals include study of historical perspective of the oratorio society as a social phenomenon of the Industrial Revolution, and the changing role of the composer, conductor and music critic in the 19th century society. No more than four units apply toward AA degree outside music major. R E 3

MUS  33 MODERN MASTERWORKS: CHORALE
MUS   33 2/2/4
Limitation: Audition with college staff
Students will perform choral repertoire of the 20th century, with special emphasis on larger choral/orchestral works by English and American composers in contemporary society; commissioning and performance of new works, and study of the 20th century harmonic and textural vocabulary as seen in this repertoire. No more than four units apply toward AA degree for non-music major. R E 3

MUS  34 EARLY MUSIC ENSEMBLE
MUS   34 2/2/4
Limitation: Audition with college staff
Students will perform sacred and secular repertoire suitable for chamber ensemble from the 15th to 18th centuries. Unaccompanied works and music with instrumental accompaniment are included. The course emphasizes cultivation of skills needed to sing music from a variety styles within the Renaissance and early Baroque era. No more that four units apply toward AA degree outside music major. R E 3
MUS 35
CONTEMPORARY VOCAL ENSEMBLE
Limitation: Audition with college staff
Study and performance of sacred and secular repertoire suitable for vocal chamber ensemble from the 19th and 20th centuries. Unaccompanied works and music with instruments or keyboard accompaniment are included. Singers will develop skills required for performance of 19th- and 20th-century chamber choir music. No more than four units apply toward AA degree outside music major. R E 3

MUS 37
WOMEN’S CHORUS
Studies the techniques of choral literature for women’s voices from the 16th century to the present. The ensemble’s repertoire will be selected from classical, religious, international folk, and musical-comedy literature. Performances required. R E 3

MUS 40
WIND ENSEMBLE
Recommended Preparation: Previous experience in an instrumental group
Emphasizes rehearsal and performance of standard band literature. Public performances are required for credit. Performances include athletic games, assemblies, and concerts. This course may be offered as open-entry/open-exit. R E 3

MUS 43
STRING ORCHESTRA
Recommended Preparation: Previous experience in performing groups
A course designed to read, study, and perform orchestral literature written especially for strings. R E 3

MUS 44
COMMUNITY BAND
A course emphasizing rehearsal and performance of standard band literature. Public performances are required for credit. Performances include those both on and off campus. R E 3

MUS 45
SCORING AND ARRANGING
Recommended Preparation: MUS 11 or 14
A study of the principles of scoring and arranging for traditional and popular instrumental as well as vocal ensembles.

MUS 47
SADDLEBACK COLLEGE BIG BAND
Limitation: Enrollment by audition only
Provides for the performance of big band music by members of the community above high-school sophomore level. Very high standards of individual and ensemble performance are expected. Upon achieving entrance into this course, the student can expect to be exposed to the very best and most demanding of the literature available in the jazz idiom. Members of this course will perform several times during the semester at events both on and off campus. R E 3

MUS 49
CHAMBER ORCHESTRA
Limitation: Audition with college staff
Studies major chamber-orchestra literature from all periods of music history. R E 3

MUS 50
APPLIED MUSIC-INSTRUMENTAL
Recommended Preparation: MUS 55 or 56
Keyboard harmony will be emphasized. Interpretive development of piano performance ability at a second-year level. Keyboard harmony will be emphasized. A combination of MUS 54, 55 or 56 may be taken a maximum of four times. R A 3

MUS 52
APPLIED MUSIC: VOICE
Limitation: College audition
Corequisite: MUS 59
Individual instruction in a traditional band or orchestral instrument, voice or piano at the college level with an approved instructor or recommended college class. By audition only. R E 3

MUS 54
BEGINNING PIANO
An introductory course in piano, with instruction in music-reading, repertoire, piano technique, tone production, sight-reading, keyboard harmony, and performance styles for music and non-music majors at a first-year level. A combination of MUS 54, 55, and 56 may be taken a maximum of four times. R A 3

MUS 55
INTERMEDIATE PIANO
Recommended Preparation: MUS 54
Instruction in major and minor scales, piano technique, tone production, sight-reading, building of repertoire and performance styles. Includes technical and interpretive development of piano performance ability at a second-year level. Keyboard harmony will be emphasized. A combination of MUS 54, 55 or 56 may be taken a maximum of four times. R A 3

MUS 56
ADVANCED PIANO
Recommended Preparation: MUS 55
This course is of a “Master Class” or a workshop character, and for the student interested in furthering his or her understanding of musical styles through careful study and performance of Baroque, Classic Romantic and Contemporary piano literature. Works and performance are thoroughly analyzed and discussed as to style, interpretation and technical problems. A combination of MUS 54, 55 or 56 may be taken a maximum of four times. R A 3

MUS 58
PIANO REPertoire AND PERFORMANCE
Recommended Preparation: MUS 55 or demonstrated proficiency
The study of important piano solo literature from Bach to contemporary with emphasis on technique and procedures in solo-performance preparation. R E 3

MUS 59
CONCERT MUSIC
Provides opportunities for students to listen to, and be participants, in recitals. R E 3

MUS 60
BEGINNING CLASSICAL GUITAR
Emphasizes solo finger-style guitar playing on acoustic nylon-string guitar. Beginning-level music reading. No previous experience necessary. MUS 60, 61, and 62 may be taken a total of four times. R A 3
MUS 61 1.5/1/1
INTERMEDIATE CLASSICAL GUITAR
Recommended Preparation: MUS 60. Nylon strings required.
Solo and ensemble fingerstyle playing on acoustic nylon-string guitar. Intermediate level music reading. Chordal accompaniment. MUS 60, 61, and 62 may be taken a total of four times. R A 3

MUS 62 2/2/2
ADVANCED CLASSICAL GUITAR
Recommended Preparation: MUS 61. Nylon strings required.
Solo and ensemble fingerstyle playing on acoustic nylon-string guitar. Advanced-level music reading and techniques. Advanced accompaniment techniques. Building repertoire and performance skills. MUS 60, 61, and 62 may be taken a total of four times. R A 3

MUS 63 2/1/3
ENSEMBLE TECHNIQUES FOR 21ST CENTURY
Designed to aid the individual in developing his ability to perform in small instrumental ensemble groups, studying the music of late 20th century, including jazz studies. Pianists, string, woodwind, and guitar players will study standard repertoire as well as newer compositions. R E 3

MUS 64 1/1/2
PIANO ENSEMBLE
Recommended Preparation: MUS 55 or demonstrated proficiency.
The ensemble study of the literature of duo-piano including four and eight hands, both original and transcribed. Particular emphasis will be given to style, interpretation, techniques of ensemble playing and sight-reading. R E 3

MUS 66 1/1/2
CHAMBER MUSIC
Recommended Preparation: Two years of instrumental training
Chamber music is designed for pianists, string, woodwind and brass players to study chamber-music works from the standard repertoire. Emphasis will be given to student performances in concerts and recitals. R E 3

MUS 67 2/1/2
WOODWIND ENSEMBLE
Designed to aid the individual in developing his ability to perform in small instrumental ensemble groups. The type of material selected will be determined by the size and capabilities of the students enrolled. Ensembles of various sizes from duets to trios will be studied and performed at clubs, recitals, schools, and churches. Open to woodwind instruments and advanced pianists. R E 3

MUS 74 1/1/2
STRING CLASS
The study of string instruments with special emphasis on individual development of bowing, tone, and flexibility. R E 3

MUS 75 2/1/3
STRING LITERATURE
Recommended Preparation: Two years of instrumental training
Designed to analyze and perform traditional and contemporary string literature. A combination of MUS 80 and 81 may be taken a maximum of four times. R A 3

MUS 80 1/1/2
BEGINNING VOICE
Emphasizes vocal techniques, including tone production, breath control, and pronunciation, as well as music literature. A combination of MUS 80 and 81 may be taken a maximum of four times. R A 3

MUS 81 1/1/2
INTERMEDIATE VOICE
Recommended Preparation: MUS 80
Techniques of singing without the aid of a microphone. Application of this study in vocalization and repertoire. A combination of MUS 80 or 81 may be taken a maximum of four times. R A 3

MUS 82 1/1/2
VOCAL REPertoire AND Performance PROCEDURES
Recommended Preparation: MUS 81
A survey of concert literature available for various voice categories. Emphasis will be placed on the instruction and practice of presenting material from operas, concerts and musicals. R E 3

MUS 90 2/2/1
MUSIC OF BACH AND BAROQUE INTERPRETATION
Recommended Preparation: 2 years of instrumental training
Studies and performance practice in music of J.S. Bach and Baroque composers; style, embellishments, dynamics, and tempo. Performance in class of solo and ensemble works, instrumental and vocal. Open to all intermediate and advanced music students. R E 3

MUS 116 1/3/0
INTRODUCTION TO MUSICIANSHIP
A course developing the audio-lingual psycho-motor skills necessary to enable the individual to hear and feel in mind and body the music seen in musical notation. The students will be given the opportunity to acquire the basic Western musical vocabulary which may be lacking; learn its visual symbols; associate those with pitch, time, and rhythm; and express them with the voice and the body. R E 3

MUS 117 3/3/0
POPULAR SONGWRITING
Recommended Preparation: MUS 1
Explores all the aspects which go into the creation of a song. Emphasis will be placed on the construction of lyrics as well as the mechanics of music; rhythm, form, style, melody and harmony. As a course project, the students will produce a demo recording of their songs. R E 3

MUS 118 4/3/3
SOUND RECORDING—THEORY AND PRACTICE
Initial exposure to sound-recording principles, techniques, and equipment. Emphasizes current processes and application through discussion and hands-on experience. Also listed as CA 118. Credit to be given in either area, not both.

MUS 136 2/1/3
GOSPEL CHOIR
Recommended Preparation: Audition with college staff
A vocal performance group which celebrates the African-American/Caribbean and other influences of gospel, and traditional folk music of the Americas. R E 3

MUS 178 3/3/0
BEGINNING PIANO TEACHING METHODS
Recommended Preparation: Two years of piano study
This course is designed to study the technique of private teaching; includes basic musicianship. This course is offered for music-major students as well as community teachers who wish to improve their teaching methods. Any combination of MUS 178 or 179 may be taken a maximum of four times. R A 3

MUS 179 3/3/0
INTERMEDIATE PIANO TEACHING METHODS
Recommended Preparation: Two years of previous piano study or MUS 178
This course is designed to study the technique of private teaching at the intermediate level. The course emphasizes stylistic interpretation in each different period; Baroque, Classic, Romantic, Impressionist, and Contemporary. R A 3

MUS 189 .5-4/.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

MUS 250 1/1/5
BASIC APPLIED MUSIC
Corequisite: MUS 59
Recommended Preparation: Audition with College Staff and placement exam
Individual instruction in a traditional band or orchestral instrument, voice or piano at the precollege level with an approved instructor or recommended college class. R E 1

MUS 260 1/1/2
BASIC GUITAR
Studies basic techniques of the guitar. Emphasis will be on music fundamentals as it pertains to basic guitar techniques and the reading of music. This course will prepare students to qualify for further study in classical and/ or jazz guitar. R E 3
N 160
PHARMACOLOGY
Recommended Preparation: BIO 12
Promotion of adaptation via pharmacologic interventions. The course includes principles of therapeutic pharmacology, drug names, some dosages, drug classifications, behavioral assessment of drug actions and interaction, routes and methods of drug administration, and nursing responsibilities associated with medication administration. Letter grade only.

N 161
GROWTH AND DEVELOPMENT
Examines developmental tasks and needs from birth through middle age. Stimuli that influence growth and development, as well as a brief overview of major developmental theories, are presented. Physiologic, self-concept, role, and interdependence behaviors will be examined.

N 162
SUCCESSFUL TRANSITION TO PROFESSIONAL NURSING
Addresses strategies for successful completion of the nursing program. Included in these strategies are study and test-taking skills, critical thinking, resource utilization, application of the Roy Adaptation Model, the nursing process, and professional role transition.

N 170
NURSING PROCESS
Prerequisite: BIO 11, 12, 15, with a grade of "C" or better, eligibility for ENG 1A, and official admission to the nursing program
Corequisite: N 170 Lab
Recommended Preparation: Concurrent enrollment or prior completion of N160 and GERO 101 with "C" or better
Theoretical base needed for application of the nursing process at a beginning level, utilizing the Roy Adaptation Model. Focuses on care of the adult medical-surgical, health care consumer with less complicated disorders, in a variety of health care settings, stressing concepts and rationales related to fundamental nursing practice. Principles of safety, physical and psychosocial assessment, pharmacology, nutrition, the business of health care, community health, issues of professional practice, communication, health teaching, diversity, growth and development, geriatric nursing, disease process, disease prevention, restorative care, and end-of-life care are integrated.

N 171
MENTAL HEALTH NURSING
Prerequisite: Official admission to the nursing program
Corequisite: N 171 lab
Recommended Preparation: PSYC 1
Provides the theoretical base for applying the nursing process and Roy Adaptation Model to the care of individuals and families across the life span who have ineffective behaviors in psychosocial functioning. Emphasis is on communication and the principles of psychiatric/mental health nursing, including psychopharmacology. Psychopharmacology is integrated.

N 172
MEDICAL-SURGICAL NURSING
Prerequisite: N 160, 170, and GERO 101 with grades of "C" or better
Corequisite: N 172 Lab
Focuses on the application of the nursing process based on the Roy Adaptation Model, and the principles of medical and surgical nursing to patients with ineffective behaviors in oxygenation, elimination, fluid and electrolytes, activity and rest, neurological function, endocrine function, protective function, self concept, role function and interdependence.

N 173
NURSING CARE OF CHILDREN AND FAMILIES
Prerequisite: N 172 with grade of "C" or better
Corequisite: N 173 Lab
Recommended Preparation: N 161
Focuses on the integration and application of the nursing process with the Roy Adaptation Model in providing nursing care for neonates, infants, children and adolescents and their families/significant others. Emphasis is on a family centered approach to nursing care, communication, health education, health promotion, illness prevention, and adaptation directed towards the female client, the neonate, and the family/significant others. Principles of nutrition, medication/fluid administration, physiology, growth and development, advocacy and concepts of diversity are integrated.
N 174  WOMEN’S HEALTH NURSING  
Prerequisite: N 173 with a grade of “C” or better  
Corequisite: N 174 Lab  
Recommended Preparation: N 161  
Focuses on the integration and application of the nursing process with the Roy Adaptation Model in providing nursing care for women, infants, and family/significant others. Emphasis is on a family-centered approach to nursing care, communication, health education, health promotion, illness prevention, and adaptation directed toward the female client, the neonate, and family/significant others. Principles of nutrition, medications, fluid administration, physiology, growth and development, advocacy, and concepts of diversity are integrated.

N 175  NURSING IN THE COMMUNITY  
Prerequisite: N 172 with a grade of “C” or better  
Provides supervised clinical practice for the application of the nursing process/Roy Adaptation Model in caring for health-care consumers in various clinical settings. Emphasis is on the practice of nursing in non-traditional settings.

N 176  ADVANCED NURSING  
Prerequisite: N 161, 173, and 174 with a grade of “C” or better  
Corequisite: N 176 Lab  
Focuses on the synthesis of the nursing process with the Roy Adaptation Model and critical thinking for complex, acute, and critically ill medical surgical patients and groups of patients. Emphasis is placed on leadership, patient care management systems, and ethical/legal issues. Students are exposed to specialty nursing areas and are provided a preceptorship to transition from student to staff nursing roles.

N 189  SPECIAL TOPICS  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

N 200  NEW GRADUATE CLINICAL LABORATORY EXPERIENCE  
Limitation: Graduate of a BRN approved RN program  
Provides a clinical experience for new graduates of a registered nursing program and newly licensed RNs beyond that provided in the pre-licensure program. Provider-approved by the California Board of Registered Nursing. Provider Number CEP60 for 30 contact hours. R E 3

N 201  NURSING SPECIALTY CLINICAL LABORATORY EXPERIENCE  
Limitation: Graduate of a BRN approved RN program  
Designed to allow the student to investigate a nursing specialty area of interest and meet individual learning needs in that specialty. May include operating room, obstetrics, critical care, pediatrics, neonatal, emergency room, psychiatric, medical-surgical, and emergency nursing. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60 for 30 contact hours.

N 238  PERIOPERATIVE NURSING I  
Corequisite: N 174 Lab  
Limitation: Current or pending RN license, current CPR card, and current malpractice insurance  
Perioperative nursing theory and practice necessary for entry level into the operating room. Focuses on utilization of the nursing process to provide care for clients undergoing surgical intervention. Provider approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

N 240  EMERGENCY NURSING  
Recommended Preparation: N 174  
Limitation: Current or pending CA RN license, current CPR card, and current malpractice insurance  
Prepares students for initiating and maintaining common intravenous therapies (IV). Nursing assessments and special patient care are included. Although focused on the hospitalized patient, knowledge can easily be transferred to the home care setting. Covers insertion techniques, administration of TPN, blood and blood products, piggybacks, intermittent infusion sets, and common I.V. drugs. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, 24 LVN contact hours.

N 244  I.V. THERAPY TECHNIQUES FOR LICENSED VOCATIONAL NURSES  
Limitation: Current California LVN/RN License  
Prepares students for initiating and/or maintaining common intravenous therapies (IV). Includes nursing assessments and special patient care. Although focused on the hospitalized patient, knowledge can easily be transferred to the home care setting. Covers insertion techniques, administration of I.V. solutions, TPN, blood and blood products, piggybacks, intermittent infusion sets, infusion pumps, and common I.V. drugs. Provides state certification for LVNs. (30 hrs LVN CE credit, BRN CEP 80) R E 3

N 245  I.V. THERAPY TECHNIQUES FOR NURSES  
Recommended Preparation: N 170  
Limitation: Current or pending RN license, current CPR card, and current malpractice insurance  
Prepares students for initiating and/or maintaining common intravenous therapies (IV). Nursing assessments and special patient care are included. Although focused on the hospitalized patient, knowledge can easily be transferred to the home care setting. Covers insertion techniques, administration of TPN, blood and blood products, piggybacks, intermittent infusion sets, and common I.V. drugs. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, 24 LVN contact hours.

N 251  NURSING CARE OF THE FAMILY IN LABOR AND DELIVERY  
Recommended Preparation: N 174  
Provides students with obstetrical nursing theory in the areas of labor and delivery services including immediate care of the newborn. Provides family-centered nursing care for the family experiencing the birth of a new child. Includes nursing theory necessary to work in labor and delivery areas. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.

N 252  ANTEPARTAL AND POSTPARTAL CARE OF THE FAMILY  
Recommended Preparation: N 174  
Provides students with obstetrical nursing theory in the areas of antepartal and postpartal maternal and infant care. Focuses on providing nursing care to the expectant family and those who have just had a birth. Includes nursing theory necessary to work in an antepartal and/or postpartal nursing area. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60, for 30 contact hours.
**ACCT 220**

Introduction to Financial Planning

**Course Prefix**

**Course Number**

**Course Title**

**No. of Units**

**Lecture Hours Per Week**

**Lab Hours Per Week**

**WORLD RELIGIONS**

PHIL 10

3/3/0

**INTRODUCTION TO PHILOSOPHY**

Investigates many of the major philosophical themes within the Western tradition. For example, among these themes will be the nature of the self, free will and determinism, the ground and nature of human knowledge, and the nature of human value (ethical theory), as well as aesthetic value (aesthetics) and the nature of society in relation to the individual (political philosophy). Other topics include the nature and methods of the sciences (both human and natural), philosophical psychology and the theory of language (meaning). Course content will vary, but selection will be from several of the above topics.

**PHOT 25**

3/3/0

**HISTORY OF PHOTOGRAPHY**

A survey of the history of photography from its origins to the present. An examination of critical and philosophical approaches to the photographic medium.
PHOT 50
INTRODUCTION TO PHOTOGRAPHY
Introduction to black-and-white photography to cover technical and aesthetic aspects. Includes operation of camera and lenses and darkroom processing and procedures. Fundamentals of composition, light, and portraiture are covered. A combination of PHOT 50, 55, or 156 may be taken a maximum of four times. R A 3

PHOT 51
INTRODUCTION TO DIGITAL IMAGING
Recommended Preparation: PHOT 50 or 158 and basic operational knowledge of Macintosh computer
An introduction to photographic imaging through digital technology using Adobe Photoshop software on the computer. The course will cover the various equipment and techniques utilized in the production of digital imagery: scanning, manipulation, and output. Aesthetic issues and their relationship to photography will be covered. R E 3

PHOT 55
INTERMEDIATE PHOTOGRAPHY
Recommended Preparation: PHOT 50
A course designed for further exploration of photographic techniques and controls. Specific films and papers are covered as well as post-printing alterations. Electronic flash, wide angle, and telephoto lenses are utilized. A combination of PHOT 50, 55, or 156 may be taken a maximum of four times. R A 3

PHOT 152
INTERMEDIATE DIGITAL IMAGING
Recommended Preparation: PHOT 50, 51, 158
An intermediate-level course in photographic imaging through digital technology using Adobe Photoshop. Relevant technical and aesthetic issues will be covered. R E 3

PHOT 156
ADVANCED PHOTOGRAPHY
Recommended Preparation: PHOT 55
A course with emphasis on creating visual imagery through advanced photographic techniques and processes. Includes basic studio lighting and infrared film. A combination of PHOT 50, 55, 156 may be taken a maximum of four times. R A 3

PHOT 158
INTRODUCTION TO COLOR PHOTOGRAPHY
An introductory photography course utilizing color transparency (slide) films as an instructional medium. (No lab). Basic use of 35mm camera, lenses, and flash are covered, as well as aesthetics of composition and color. A combination of PHOT 158 or 159 may be taken a maximum of four times. R A 3

PHOT 159
ADVANCED COLOR PHOTOGRAPHY
Recommended Preparation: PHOT 50 or 158
A continuation of PHOT 158. A further study of image making with color transparency (slide) films. (No lab). Includes high speed films, light mixing, neutral density filters, and filtration. A combination of PHOT 158 or 159 may be taken a maximum of four times. R A 3

PHOT 160
THE ART OF COLOR PHOTOGRAPHY
Recommended Preparation: PHOT 50
Introduction to color photography to cover exposing and printing various color films (negative and transparency slides) and inkjet papers in present use. Both technical and aesthetic concerns are explored. A combination of PHOT 160 and 161 may be taken a maximum of four times. R A 3

PHOT 189
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

PHOT 190
SPECIAL PROBLEMS IN PHOTOGRAPHY
Continued exploration of advanced photographic concepts and their development through various processes. R E 3

PHOT 200
PORTRAITS AND PORTRAITURE
Recommended Preparation: PHOT 50, 55
An exploration of various styles and techniques used in contemporary portraiture. Essential basic of lighting (natural and artificial), composition, and direction will be covered. R E 3

PHOT 201
ADVANCED COLOR PHOTOGRAPHY
Recommended Preparation: PHOT 50 or 158
A continuation of PHOT 158. A further study of image making with color transparency (slide) films. (No lab). Includes high speed films, light mixing, neutral density filters, and filtration. A combination of PHOT 158 or 159 may be taken a maximum of four times. R A 3
PE 6 1 or 1.5/.67 or 1/1.33 or 2
CONDITIONING
Instruction and supervised practice in the techniques of developing and maintaining physical fitness.  R E 3

PE 7 1 or 1.5/.67 or 1/1.33 or 2
STEP TRAINING
Step Training is a cardiovascular program which involves stepping up and down on an adjustable platform while simultaneously performing upper body strength movements to the accompaniment of music. Step Training is for both men and women, from beginners to conditioned athletes. To change the intensity, students may alter the height of the platform. This course is comprehensive, balanced, and works every major muscle group.  R E 3

PE 8 1 or 1.5/.67 or 1/1.33 or 2
POWER AEROBICS
A fitness course with both males and females in mind. Designed for overall body conditioning, with emphasis on aerobic workouts for cardiovascular endurance and muscle workouts for strength improvement. Performed to music using athletic-type movements and involving the use of hand and/or ankle weights. Students can work at their own level of intensity.  R E 3

PE 9 1 or 1.5/.67 or 1/1.33 or 2
STRETCHING, FLEXIBILITY, AND CONDITIONING
A course emphasizing proper techniques of movement, breathing, and body alignment for postural intergration.  R E 3

PE 10 1 or 1.5/.67 or 1/1.33 or 2
BEGINNING BADMINTON
Presentation of the official singles and doubles games, including the basic strokes, footwork, strategy, and etiquette. A combination of PE 11, 12, and 13 may be taken four times.  R A 3

PE 11 1 or 1.5/.67 or 1/1.33 or 2
INTERMEDIATE BADMINTON
Recommended Preparation: PE 10
Emphasis on individual stroke analysis, playing strategy, and match play, singles and doubles. A combination of PE 11, 12, and 13 may be taken four times.  R A 3

PE 12 1 or 1.5/.67 or 1/1.33 or 2
ADVANCED BADMINTON
Recommended Preparation: PE 11
Emphasis on advanced strokes, strategy, and match play in singles and doubles. A combination of PE 11, 12, and 13 may be taken four times.  R A 3

PE 13 1 or 1.5/.67 or 1/1.33 or 2
BEGINNING RACQUETBALL
Instruction and practice in the basic racquetball skills, including the proper strokes and footwork. Presentation of scoring, strategy, rules, and tournament play. A combination of PE 14, 15, and 16 may be taken four times.  R A 3

PE 14 1 or 1.5/.67 or 1/1.33 or 2
ADVANCED RACQUETBALL
Recommended Preparation: PE 14
Advanced fundamentals of singles and doubles competition, including serve, rally, and court strategy. A combination of PE 14, 15, and 16 may be taken four times.  R A 3

PE 15 1 or 1.5/.67 or 1/1.33 or 2
INTERMEDIATE RACQUETBALL
Recommended Preparation: PE 14
Advanced fundamentals of singles and doubles competition with emphasis on serve, forehand, backhand, and court strategy. A combination of PE 14, 15, and 16 may be taken four times.  R A 3

PE 16 1 or 1.5/.67 or 1/1.33 or 2
ADVANCED RACQUETBALL
Recommended Preparation: PE 15
Advanced fundamentals of singles and doubles competition with emphasis on serve, forehand, backhand, and court strategy. A combination of PE 14, 15, and 16 may be taken four times.  R A 3

PE 17 1 or 2/5 or 1/1.5 or 2
BEGINNING BOWLING
Emphasis on the basic fundamentals of bowling including equipment, rules, etiquette, terminology, grip, stance, delivery, release, and follow-through. In addition, this course will include participation in a local league. Students who repeat this course will gain an expanded educational experience by supervised repetition and practice to develop skills and proficiencies. Players will learn scoring, common faults, and strategy. A combination of PE 17 and 18 may be taken four times.  R A 3

PE 18 1 or 2/5 or 1/1.5 or 2
INTERMEDIATE BOWLING
Refine techniques in grip, stance, approach, delivery, release, and follow-through. Understand angle and deflection, participate in league situations, establish handicap; learn rules, etiquette, self-correction, and the importance of strategy in bowling. Students who repeat this course will gain an expanded educational experience by supervised repetition and practice to develop skills and proficiencies. Learning objectives will be achieved through active participatory experience in individual study and/or group assignments. A combination of PE 17 and 18 may be taken four times.  R A 3

PE 19 1 or 1.5/.67 or 1/1.33 or 2
BEGINNING GOLF I
Recommended Preparation: PE 20
Review of Beginning Golf I, skills, strategy, and individual stroke analysis. A combination of PE 20, 21, 22, and 23 may be taken four times.  R A 3

PE 20 1 or 1.5/.67 or 1/1.33 or 2
BEGINNING GOLF II
Recommended Preparation: PE 20
Review of Beginning Golf I, skills, strategy, and individual stroke analysis. A combination of PE 20, 21, 22, and 23 may be taken four times.  R A 3

PE 21 1 or 1.5/.67 or 1/1.33 or 2
BEGINNING GOLF III
Recommended Preparation: PE 20
Review of Beginning Golf I, skills, strategy, and individual stroke analysis. A combination of PE 20, 21, 22, and 23 may be taken four times.  R A 3

PE 22 1 or 1.5/.67 or 1/1.33 or 2
BEGINNING TENNIS II
Recommended Preparation: PE 24
Designed for those students who are not ready to play on a regulation golf course but have mastered the basic skills of Beginning Golf I and II. This course will include the techniques (chipping, putting, sand shots, and wood shots) that should enable the student to play a successful round of golf, and golfing strategy will also be covered. A combination of PE 20, 21, 22, and 23 may be taken four times.  R A 3

PE 23 1 or 1.5/.67 or 1/1.33 or 2
ADVANCED GOLF
Recommended Preparation: PE 22 or established handicap
The nine fundamental errors in golf are analyzed. The correction of the hook, slice, shank, push, and topped shots are discussed and demonstrated. Match play is arranged between class members by their ability or through established handicaps. Students must furnish their own transportation to the golf course. A combination of PE 20, 21, 22, and 23 may be taken four times.  R A 3

PE 24 1 or 1.5/.67 or 1/1.33 or 2
BEGINNING TENNIS I
Presentation of the official doubles and singles games, including forehand and backhand strokes, serve, basic strategy, footwork, and etiquette. A combination of PE 24, 25, 26, and 27 may be taken four times.  R A 3

PE 25 1 or 1.5/.67 or 1/1.33 or 2
BEGINNING TENNIS II
Recommended Preparation: PE 24
Designed for the student not quite ready for the intermediate level of tennis. A combination of PE 24, 25, 26, and 27 may be taken four times.  R A 3

PE 26 1 or 1.5/.67 or 1/1.33 or 2
BEGINNING TENNIS III
Recommended Preparation: PE 24
Emphasis on fundamental strokes, playing strategy, and match play, singles and doubles. A combination of PE 24, 25, 26, and 27 may be taken four times.  R A 3
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PE 27  1 or 1.5/.67 or 1/1.33 or 2
ADVANCED TENNIS
Recommended Preparation: PE 26
Emphasis on advanced techniques, playing strategy, and match play, singles, doubles and mixed doubles. Field trips may be required. A combination of PE 24, 25, 26, and 27 may be taken four times.  R A 3

PE 28  1 or 1.5/.67 or 1/1.33 or 2
YOGA
Investigation and practice of the principles of physical Hatha Yoga. Emphasis is on exercises for improved body alignment, joint flexibility, muscle tone, and breathing.  R E 3

PE 29  1 or 1.5/.67 or 1/1.33 or 2
TAI CHI CH’UAN
Introduction to fundamental principles and basic movements of the ancient Taoist art. Special emphasis is given to the development of balance, harmony, and physical strength through the discipline of slow, fluid movements. Course may be offered by mediated mode of instruction.  R E 3

PE 30  1 or 1.5/.67 or 1/1.33 or 2
ADVANCED TRACK AND FIELD
Recommended Preparation: Participation on Interscholastic Track and Field or Cross Country Team or equivalent experience.
Designed for those students of advanced ability in track and field or cross country running who have competed on an interscholastic team or equivalent. Fundamentals of all events will be stressed. Recommended for physical education majors and those interested in intercollegiate competition.  R E 3

PE 31  1 or 2/.5 or 1/1 or 2
MUSCLE TONING FOR WOMEN
For women of any age and fitness level desiring development of muscular fitness. Will help students who are starting a muscle toning program or wanting to improve an existing training regimen. Topics will include the benefits and principles of muscle fitness, prevention of osteoporosis, myths and misconceptions of training nutrition, safety, equipment, and individual programs for lifetime fitness.  R E 3

PE 32  1 or 1.5/0/2 or 3
INTRAMURAL ACTIVITIES
Participation in individual and team sports, including coeducational. Sports offered may include volleyball, racquetball, tennis, basketball, weightlifting, archery, and golf.  R E 3

PE 33  1/5/1.5
BEGINNING SURFING I
Limitation: Must pass swim test.
Recommended Preparation: PE 32
Designed to meet the needs of the beginning surfer. Dry land instruction will cover such topics as: historical perspectives of surfing, ocean safety, surfing etiquette, wave selection, proper paddling, and appropriate take-off procedures. The student will be required to provide their own equipment and display an understanding of appropriate surfing equipment. A combination of PE 33, 34, 35, and 36 may be taken four times.  R A 3

PE 34  1/5/1.5
BEGINNING SURFING II
Limitation: Must pass swim test.
Recommended Preparation: PE 33
Provides beginning surfers with the knowledge and skills to become more confident and competent in their surfing ability. Covers basic ocean first aid, understanding marine life, basic turns, drops, angles, negotiating big sets with various rolls and turns, and surfing a complete wave ending in kicking out. Students will provide their own equipment. A combination of PE 33, 34, 35, and 36 may be taken four times.  R A 3

PE 35  1/5/1.5
INTERMEDIATE SURFING
Limitation: Must pass swim test
Recommended Preparation: PE 34
Designed for the surfer who can negotiate waves and do basic turns on a consistent basis. Ocean knowledge such as currents, wave development, wind pattern, and ocean floor terrain will be presented. Surfers will be taught such short and longboard maneuvers as: Duck dive, cutback, "off the lip," roundhouse, side-slip, crossover, and walk to nose. Students will become confident in riding surf four feet and larger. Students will be required to provide their own equipment. A combination of PE 33, 34, 35, and 36 may be taken four times.  R A 3

PE 36  1/5/1.5
ADVANCED SURFING
Limitation: Must pass swim test
Recommended Preparation: PE 35
Designed to meet the needs of the advanced surfer interested in extreme maneuvers and competing at the collegiate level. Students will provide their own equipment. A combination of PE 33, 34, 35, and 36 may be taken four times.  R A 3

PE 41  1 or 1.5/.57 or 1/1.33 or 2
SWIMMING FOR NONSWIMMERS
A beginning course in the instruction and practice of the most fundamental elements of swimming, diving, and safety skills. A combination of PE 41, 42, 43 may be taken four times.  R A 3

PE 42  1 or 1.5/.67 or 1/1.33 or 2
INTERMEDIATE SWIMMING
Recommended Preparation: PE 41
Designed to teach the more advanced strokes between beginner and advanced swimmer. Includes instruction in crawl stroke, breaststroke, side stroke, back crawl and elementary backstroke, treading, and safety skills. A combination of PE 41, 42, 43 may be taken four times.  R A 3

PE 43  1 or 1.5/.67 or 1/1.33 or 2
ADVANCED SWIMMING AND DIVING
Recommended Preparation: PE 42
Designed to teach students advanced swimming and diving skills. Safety in regard to lifesaving and elementary forms of rescue will be stressed. Field trips may be required. A combination of PE 41, 42, 43 may be taken four times.  R A 3

PE 44  1 or 1.5/.67 or 1/1.33 or 2
AQUATIC CONDITIONING
Recommended Preparation: Basic swimming ability
Designed to develop and maintain physical fitness through swimming. Emphasis will be placed on endurance training for improved cardiovascular fitness.  R E 3

PE 45  1 or 1.5/.67 or 1/1.33 or 2
ADVANCED WATER POLO
Recommended Preparation: Participation on Interscholastic Swimming or Water Polo Team
Designed for those students of advanced ability in water polo who have competed on an interscholastic water polo team or equivalent. Fundamentals in all aspects of play will be stressed. Recommended for Physical Education majors and those interested in intercollegiate competition.  R E 3

PE 50  1 or 1.5/.67 or 1/1.33 or 2
AEROBIC DANCE
Aerobic dance is a fitness program which combines vigorous aerobic dance with a variety of musical rhythms.  R E 3

PE 51  1 or 1.5/.67 or 1/1.33 or 2
INTRODUCTION TO BALLER
Designed for students with no experience in dance as well as those wishing to perfect basic dance skills. Fundamentals of ballet techniques are presented and practiced in class with presentations of historical and stylistic perspectives of this dance form. An emphasis is class participation to provide the student with knowledge and understanding of the physical demands of ballet dance. A combination of PE/TA 51, 52, 53 may be taken four times. Also listed as TA 51. Credit to be given in either area, not both.  R A 3
PE 52 1 or 1.5/.67 or 1/1.33 or 2
Ballet Dancing Level I
Recommended Preparation: PE 51 or TA 51
Designed to teach the fundamentals of ballet. Technical work at the ballet barre, center-floor exercises, adagio and allegro work. A combination of PE/TA 51, 52, 53 may be taken four times. Also listed as TA 52. Credit to be given in either area, not both. R A 3

PE 53 1 or 1.5/.67 or 1/1.33 or 2
Intermediate Ballet
Recommended Preparation: PE 52 or TA 52
Emphasis on improving individual skills. Continued technical work at the ballet barre. A combination of PE/TA 51, 52, 53 may be taken four times. Also listed as TA 53. Credit to be given in either area, not both. R A 3

PE 54 1 or 1.5/.67 or 1/1.33 or 2
Introduction to Modern Dance
Recommended Preparation: PE 54 or TA 54
Designed for students with no experience in dance as well as those wishing to perfect basic dance skills. Fundamentals of modern dance techniques are presented and practiced in class, and presentation of historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of modern dance. A combination of TA/PE 54, 55, 56 may be taken four times. Also listed as TA 54. Credit to be given in either area, not both. R A 3

PE 55 1 or 1.5/.67 or 1/1.33 or 2
Modern Dance Level I
Recommended Preparation: PE 54 or TA 54
Instruction and supervised practice to develop the body for communication of feeling and idea through movement. A combination of PE/TA 54, 55, 56 may be taken four times. Also listed as TA 55. Credit to be given in either area, not both. R A 3

PE 56 1 or 1.5/.67 or 1/1.33 or 2
Intermediate Modern Dance
Recommended Preparation: PE 55 or TA 55
Increased techniques in modern dance with emphasis on improving individual skills. Continued development of the body for communication through movement. A combination of PE/TA 54, 55, 56 may be taken four times. Also listed as TA 56. Credit to be given in either area, not both. R A 3

PE 57 1 or 1.5/.67 or 1/1.33 or 2
Introduction to Jazz Dancing
Recommended Preparation: PE 57 or TA 57
Designed for students with no experience in dance, as well as those wishing to perfect basic dance skills. Fundamentals of jazz dance technique are presented and practiced in class with presentation of the historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with the knowledge and understanding of the physical demands of jazz dancing. A combination of PE/TA 57, 58, 59 may be taken four times. Also listed as TA 57. Credit to be given in either area, not both. R A 3

PE 58 1 or 1.5/.67 or 1/1.33 or 2
Jazz Dancing Level I
Recommended Preparation: PE 58 or TA 58
Basic jazz techniques, center and locomotor combinations, and original routines set to jazz music. A combination of PE/TA 57, 58, 59 may be taken four times. Also listed as TA 58. Credit to be given in either area, not both. R A 3

PE 59 1 or 1.5/.67 or 1/1.33 or 2
Intermediate Jazz Dancing
Recommended Preparation: PE 59 or TA 59
Basic skills of jazz dancing with emphasis on improving individual techniques. Includes more emphasis on improving individual techniques and more advanced jazz technique with original routines set to music. A combination of PE/TA 57, 58, 59 may be taken four times. Also listed as TA 59. Credit to be given in either area, not both. R A 3

PE 60 1 or 1.5/.67 or 1/1.33 or 2
Introduction to Tap Dancing
Recommended Preparation: PE 60 or TA 60
Designed for students with no experience in dance as well as those wishing to perfect basic dance skills. Fundamentals of tap-dancing techniques are presented and practiced in class, and presentation of historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of tap dancing. A combination of PE/TA 60, 61, 62 may be taken four times. Also listed as TA 60. Credit to be given in either area, not both. R A 3

PE 61 1 or 1.5/.67 or 1/1.33 or 2
Tap Dancing Level I
Recommended Preparation: PE 61 or TA 61
Basic tap-dance techniques, tap-dance combinations, and original tap dances. A combination of PE/TA 60, 61, 62 may be taken four times. Also listed as TA 61. Credit to be given in either area, not both. R A 3

PE 62 1 or 1.5/.67 or 1/1.33 or 2
Intermediate Tap Dancing
Recommended Preparation: PE 62 or TA 62
Review and continuation of basic skills of tap dancing with emphasis on improving individual techniques. More advanced steps and dance combinations will be presented. A combination of PE/TA 60, 61, 62 may be taken four times. Also listed as TA 62. Credit to be given in either area, not both. R A 3

PE 63 1 or 1.5/.67 or 1/1.33 or 2
Exercise for Dancers
Recommended Preparation: PE 63 or TA 63
Designed for the dance student to increase fitness, flexibility, endurance, strength, and poise in all types of dance techniques. Includes weight training, nutrition, care and prevention of injuries, and exercise to musical accompaniment. Also listed as TA 63. Credit to be given in either area, not both. R E 3

PE 64 3/3/0
History of Dance
Provides a general history of dance forms as they relate to dance in America, including ethnic forms, ballet, modern, jazz, and tap. Content will emphasize the ritual, social, and theatrical aspects of dance. The course will include some reference to other art forms and the humanities. Video tapes and slides will be integrated as visual aids. Also listed as TA 64. Credit to be given in either area, not both.

PE 65 1/5/1.5
Pilates Conditioning
Introduces the fundamentals of non-impact exercise emphasizing the principles of Joseph Pilates. Classes provide the dancer and nondancer with exercises to improve abdominal and back strength, flexibility, and postural alignment. Pilates involves integrating the physical and mental aspects of movement in order to counter-balance weakness and correct imbalances in the body. Enhancement in these areas, in turn, provides for greater technical ability in any movement-based program, such as other dance studies, sports, or exercise programs, challenging to all fitness levels. Proper breathing techniques are emphasized, the focus being on exercising the mind as well as the body. R E 3

PE 70 1 or 1.5/.67 or 1/1.33 or 2
Basketball
Instruction and supervised practice in basic basketball fundamentals. Development of various methods of individual and team play. A combination of PE 70, and 71 may be taken times. R A 3
BEGINNING VOLLEYBALL
PE 76 1 or 1.5/.67 or 1/1.33 or 2
Recommended Preparation: Participation on an interscholastic team
Designed for students of advanced ability in basketball skills who have competed on an interscholastic team or its equivalent. Offensive and defensive skills as well as advanced strategies will be stressed. Recommended for physical education majors and those interested in interscholastic competition. A combination of PE 70, and 71 may be taken four times.
RA 3

BEGINNING SOCCER
PE 75 1 or 1.5/.67 or 1/1.33 or 2
Basic fundamentals of individual play such as dribbling, heading, shooting, trapping, passing, defensive tactics, and knowledge of rules. A combination of PE 72, and 73 may be taken four times.
RA 3

ADVANCED SOCCER
PE 74 1 or 1.5/.67 or 1/1.33 or 2
Recommended Preparation: PE 72
Advanced fundamentals of individual play such as dribbling, heading, shooting, trapping, passing, and defensive tactics, and knowledge of rules. A combination of PE 72 and 73 may be taken four times.
RA 3

COED SOFTBALL—SLOW PITCH
PE 77 1 or 1.5/.67 or 1/1.33 or 2
Designed to teach modified softball (slow pitch) for men and women. Fundamentals of offense, defense, basic drills, and team play will be emphasized.
RE 3

ADVANCED SOFTBALL FOR WOMEN
PE 78 1 or 1.5/.67 or 1/1.33 or 2
Recommended Preparation: Participation on interscholastic team
Designed for students of advanced ability in competitive fast-pitch softball. Skills and mechanics include throwing, fielding, batting, bunting, base running, sliding, positioning, and offensive and defensive team strategy. Recommended for physical education majors and those interested in interscholastic competition.
RE 3

BEGINNING VOLLEYBALL
PE 79 1 or 1.5/.67 or 1/1.33 or 2
The basic skills and rules of volleyball are introduced. Rules, strategy, skill practice, and class competition are included. Course is oriented to the beginning volleyball student. A combination of PE 76, 77, and 78 may be taken four times.
RA 3

INTERMEDIATE VOLLEYBALL
PE 80 1 or 1.5/.67 or 1/1.33 or 2
Recommended Preparation: Participation on interscholastic team
Designed to introduce advanced skills necessary for playing competitive volleyball. Skills covered include basic skills, fast offense, court positioning, rolls, dives, and team strategy. Both offensive and defensive. A combination of PE 76, 77, and 78 may be taken four times.
RA 3

ADVANCED VOLLEYBALL
PE 81 1 or 1.5/.67 or 1/1.33 or 2
Recommended Preparation: PE 77
Designed to introduce advanced skills necessary for playing competitive volleyball. Skills covered include basic skills, fast offense, court positioning, rolls, dives, and team strategy. Both offensive and defensive. A combination of PE 76, 77, and 78 may be taken four times.
RA 3

ADVANCED BASEBALL
PE 82 1 or 1.5/.67 or 1/1.33 or 2
Recommended Preparation: Participation on interscholastic baseball team
Designed for those students of advanced ability in baseball skills who have competed on an interscholastic team or equivalent. Fundamentals of offensive, defensive, and advanced strategies will be stressed. Recommended for physical education majors and those interested in interscholastic competition.
RE 3

ADVANCED FOOTBALL
PE 83 1 or 1.5/.67 or 1/1.33 or 2
Recommended Preparation: Participation on interscholastic team
Designed for those students of advanced ability in football skills who have competed on an interscholastic team or equivalent. Fundamentals of offensive, defensive, and kicking skills, as well as advanced strategies will be stressed. Recommended for physical education majors and those interested in interscholastic competition.
RE 3

SELF-DEFENSE (COED)
PE 84 1 or 1.5/.67 or 1/1.33 or 2
A course studying and practicing techniques of basic self-defense recommended for both men and women.
RE 3

ADAPTED PERSONALIZED FITNESS
PESS 1 1.5/1/2
Fitness course consists of three major components: (1) strengthening exercises; (2) cardiovascular conditioning; (3) stretching-range-of-motion and relaxation exercises. Each student will be given an individual program, and the class will be closely monitored by the instructor and student assistants.
RE 3
### Physical Education (Training and Theory)

**PPE 1  INTRODUCTION TO PHYSICAL EDUCATION AND ATHLETICS**

Designed to introduce the student to an overview of physical education and coaching, professional preparation, philosophies, and employment opportunities. Characteristics of the field are viewed from a broad theoretical and practical perspective.

**PPE 3  PREVENTION AND CARE OF ATHLETIC INJURIES**

Designed to assist trainers, coaches, physical-education and recreation majors, playground personnel, and athletes in the prevention and care of athletic injuries. Emphasis will be on practical application as well as theory.

**PPE 4  PRINCIPLES AND FUNDAMENTALS OF COACHING**

Emphasizes the principles and fundamentals of coaching. The student will learn how to supervise and organize an effective sport drill, how to care for and prevent injuries, and how to better understand and effectively deal with players and allied personnel.

**PPE 9  CHOREOGRAPHY**

Recommended Preparation: Two semesters of dance training

Designed to encourage survey and analysis of dance movement potential and the creative development of the choreographic process. Student will gain knowledge in effective staging, lighting, and the integration of music with body movement. R E 3

**PPE 10  DANCE PRODUCTION**

Analysis of the elements of choreography, development of solo and group choreographic composition, staging dances and performances. R E 3

**PPE 11  DANCE REHEARSAL AND PERFORMANCE**

Emphasizing the preparation and rehearsal of choreographic composition for public performance. R E 3

**PPE 13  LIFESAVING**

Recommended Preparation: PE 43

Includes elements of personal and group water safety, with development of ability to assist and rescue others in danger of drowning. Satisfactory completion of course qualifies student for American Red Cross Lifesaving Certificate.

**PPE 14  AMERICAN RED CROSS WATER SAFETY INSTRUCTOR/INSTRUCTOR-CANDIDATE TRAINING**

Recommended Preparation: Advanced swimming skills evidenced by passing grade on written exam and demonstration of advanced skills or PE 43

American Red Cross Course designed to train instructor-candidates to teach a variety of American Red Cross swimming and water safety courses to individuals of all ages. Upon satisfactory completion, the student will receive an Instructor Candidate Training certificate and a Water Safety Instructor certificate.

**PPE 101  ATHLETIC TRAINING FIELD WORK**

Recommended Preparation: PPE 3

Exposure to immediate recognition and treatment of sports injuries unique to intercollegiate athletics. Emphasis on rehabilitation and taping techniques to enable athletes to return to competition.

Students will receive hands-on experience and will be able to apply various techniques in the treatment of athletic injuries. R E 3

**PPE 105  MENTAL SIDE OF SPORTS**

3/0

Deals into the connection between the mental and physical aspects of competition and the ways to enhance one’s performance. Stress-reduction techniques, visualization, imagery, and goal setting will be covered, as will training methods for both the body and the mind. The course is designed for both the weekend athlete and the serious intercollegiate competitor.

**PPE 117  SKILLS, TECHNIQUES, AND THEORY OF SONGLEADING & CHEERLEADING**

2.5/5/0

A special course designed for song and yell leaders or physical education and recreation majors. Instruction, practice, and evaluation of song and cheerleading will be covered, as will training methods for both the body and the mind. The course is designed for both the weekend athlete and the serious intercollegiate competitor.

**PPE 200  PREPARATION FOR WALK-ON COACHES**

1/1/0

A course emphasizing the principles and fundamentals of coaching. The student will learn how to supervise and organize an effective sport drill, care for and prevent injuries, and better understand and effectively deal with players and other coaches. R E 1

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**Course Titles**

- **ACCT 220** Introduction to Financial Planning
- **PESS 2** Adapted Water Exercises and Swimming
- **PESS 107** Survey and Assessment of Fitness
- **PESS 300** Adapted Personalized Fitness
- **PESS 310** Adapted Water Exercise and Swimming
- **PPE 1** Introduction to Physical Education and Athletics
- **PPE 3** Prevention and Care of Athletic Injuries
- **PPE 9** Choreography
- **PPE 10** Dance Production
- **PPE 11** Dance Rehearsal and Performance
- **PPE 13** Lifesaving
- **PPE 14** American Red Cross Water Safety Instructor/Instructor-Candidate Training
- **PPE 101** Athletic Training Field Work
- **PPE 105** Mental Side of Sports
- **PPE 117** Skills, Techniques, and Theory of Songleading & Cheerleading
- **PPE 200** Preparation for Walk-on Coaches
Physics

**PHYS 2A**
**INTRODUCTION TO PHYSICS**
Prerequisite: MATH 124
Recommended Preparation: PHYS 20 or high school physics

This course is intended for students in the sciences and related subjects who are required to complete a physics course based on pre-calculus mathematics. The course is a study of mechanics, vibration and waves, fluids, and thermodynamics. Topics include kinematics and dynamics in one and two dimensions, Newton’s Laws of motion, energy and momentum, conservation principles, statics, kinematics and dynamics of rotation, elasticity, Hook’s Law, simple harmonic motions, wave behavior, interference and standing waves, properties of fluids, Pascal’s and Bernoulli’s principles, temperature, heat calorimetry, the gas laws, and the laws of thermodynamics. Selected applications of calculus will be developed.

**PHYS 2B**
**INTRODUCTION TO PHYSICS**
Prerequisite: PHYS 2A

A continuation course from PHYS 2A. Study of electrostatics, electromagnetism, optics atomic and nuclear physics. Topics include electric charge, fields, circuits, electromagnetic induction, electromagnetic waves, electronic applications, lenses and mirrors, wave optics, optical applications, waves and particles, special relativity, the Bohr atom, quantum concepts, the nucleus, nuclear processes and energy.

**PHYS 3A**
**FUNDAMENTAL PHYSICS**
Prerequisite: MATH 3A
Recommended Preparation: PHYS 20 or high school physics

Intended for students in the sciences and related subjects who are required to complete a physics course based on pre-calculus mathematics. Study of electrostatics, magnetism, optics atomic and nuclear physics. Topics include electric charge, fields, circuits, electromagnetic induction, electromagnetic waves, electronic applications, lenses and mirrors, wave optics, optical applications, waves and particles, special relativity, the Bohr atom, quantum concepts, the nucleus, nuclear processes and energy.

**PHYS 3B**
**FUNDAMENTAL PHYSICS**
Prerequisite: PHYS 3A
A continuation course from Physics 3A. Study of electrostatics, electromagnetism, optics atomic, and nuclear physics. Topics include electric charge, fields, circuits, electromagnetic induction; electromagnetic waves, electronic applications, lenses and mirrors, wave optics, optical applications, waves and particles, special relativity, the Bohr atom, quantum concepts, the nucleus, nuclear processes and energy.

**PHYS 4A**
**GENERAL PHYSICS**
Prerequisite: MATH 3A
Recommended Preparation: CS 1A and PHYS 20 or high school physics

A calculus-based introduction to classical mechanics. Space and time, straight-line kinematics, motion in a plane, forces and equilibrium, basis of Newton’s Laws, particle dynamics, universal gravitation, collisions and conservation laws, work and potential energy, relativistic kinematics and dynamics; vibrational motion; conservative forces; inertial and non-inertial frames, central-force motions, rigid bodies, and rotational dynamics are studied.

**PHYS 4B**
**GENERAL PHYSICS**
Prerequisite: PHYS 4A

A calculus-based introduction to classical electromagnetism. Electrostatic force, electrostatics, current and magnetic force, magnetic fields, electromagnetic induction, electromagnetic radiation and waves, interaction of radiation and matter are studied.

**PHYS 4C**
**GENERAL PHYSICS**
Prerequisite: PHYS 4A

A calculus-based introduction to classical mechanics. Space and time, straight-line kinematics, motion in a plane, forces and equilibrium, basis of Newton’s Laws, particle dynamics, universal gravitation, collisions and conservation laws, work and potential energy, relativistic kinematics and dynamics; vibrational motion; conservative forces; inertial and non-inertial frames, central-force motions, rigid bodies, and rotational dynamics are studied.

**PHYS 4D**
**GENERAL PHYSICS**
Prerequisite: PHYS 4A

A calculus-based introduction to classical electromagnetism. Electrostatic force, electrostatics, current and magnetic force, magnetic fields, electromagnetic induction, electromagnetic radiation and waves, interaction of radiation and matter are studied.

**PS 1**
**AMERICAN GOVERNMENT**

Survey of principles, personalities, problems, and issues of government. Emphasis on developing trends of the U.S. government. (Note: this course satisfies the state requirements in state and local government of California.) Course may be offered by mediated mode of instruction. (Sec. 4040).

**PS 2**
**AMERICAN POLITICS**

Investigates the political party system, political personalities, political fundraising, recent elections, political principles, suggestions for political reform, the role of the media in politics, and current political literature.

**PS 3**
**CALIFORNIA GOVERNMENT AND POLITICS**

An examination of the state and local structures and politics of California and the major issues facing California today. This course will include comparisons with the politics and governments in other states.

**PS 4**
**INTRODUCTION TO POLITICAL SCIENCE**

An introduction to the study of politics. The course is designed to familiarize the student with the basic systems, ideologies, and models of political analysis.

**PS 10**
**INTRODUCTION TO POLITICAL THEORY**

A survey and analysis of selected political theorists and concepts. Ancient, classical, medieval, Renaissance, and modern political theory will be studied. The lineage of political concepts such as justice, freedom, power, and property will be traced as they evolve over time. For Honors Program students and political science majors.
### Courses

#### PS 11  WORLD POLITICAL ECONOMICS
3/3/0

Focuses on the relations between the political and economic systems of worldwide government. It covers the impact of political decisions on world economies and international organizations. Further emphasis is on a comparison-contrast of various national economies, geographic areas of concern include Africa, Europe, the Pacific Rim, the Middle East, Latin America, the Soviet Union, China, and the United States. Also listed as ECON 11. Credit given in either area, not both.

#### PS 12  COMPARATIVE POLITICS AND GOVERNMENT
3/3/0

Comparison of different political systems with analysis of governmental institutions and political processes. Description and explanation of different combinations of events and structures found in the politics of various societies.

#### PS 14  INTERNATIONAL RELATIONS
3/3/0

An examination of contemporary world trends with emphasis on conflict and problem areas.

#### PS 17  LATIN AMERICAN POLITICS AND GOVERNMENT
3/3/0

Contemporary analysis of selected Latin American governments with emphasis on comparing and contrasting the types of politics emerging with our neighbors to the south. Focus will be on Mexico, Cuba, Chile, Brazil, and Argentina.

#### PS 21  GENDER AND POLITICS
3/3/0

Introduction to women's participation in American politics. Women's involvement in politics before and after women acquired the right to vote will be examined. Using primary sources, these experiences will be addressed from different racial, class, and ethnic backgrounds. In the examination of contemporary politics focus will be on women's political agenda of the 1960's, 1970's, 1980's, and 1990's which centered around issues such as equal pay, sex discrimination in education and the workplace, affirmative action, reproductive rights, sexual choice, domestic violence, and increasing the representation of women in local and national political arenas. Finally, the future significance of gender in American politics will be assessed.

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#### PS 61  HISTORY & POLITICS OF RUSSIA: THE SOVIET PERIOD TO THE PRESENT
3/3/0

A survey and evaluation of the Russian Revolution followed by an analysis of the major forces which shaped the Soviet Union's political, economic, and social systems. Course also includes the fall of the Communist Party and new status of former Soviet Republics. Also listed as HIST 61. Credit given in either area, not both.

#### PS 75  INTRODUCTION TO THE CONTEMPORARY MIDDLE EAST
3/3/0

A survey of the major political, economical and social institutions and movements of the Middle East from 1800 to the present with special emphasis on the problems of the developing Middle Eastern nations, the Arab-Israeli conflict, and the political and economic implications of Middle Eastern oil. Includes a brief introduction to Islamic religious institutions, terrorism, and militarism, with special emphasis on the importance of these institutions to the contemporary scene. Also listed as HIST 75. Credit to be given in either area, not both.

#### PS 80  INTRODUCTION TO CONTEMPORARY AFRICA
3/3/0

A survey of African history from ancient Egypt to the present. Focus will be on the nature of early African empires and societies, the impact of the slave trade, responses to imperial conquest and colonial rule, the rise of nationalist movements and the regaining of political independence, and the contemporary challenges facing post-colonial African states and peoples. Also listed as HIST 80. Credit to be given in either area, not both.

#### PS 140  INTRODUCTION TO PUBLIC ADMINISTRATION
3/3/0

A background foundation of the public sector at local, state, and federal levels; establishing controls over abuses monitoring administrative systems; the public administrator's role in social issues, analysis and decision-making; organizational behavior, personnel, and trends in the econo-political structure.

#### PS 189  SPECIAL TOPICS
.5-4/.5-4/.5-9

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course.  R E 3

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#### PS 289  SPECIAL TOPICS
.5-4/.5-4/.5-9

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course.  R E 3
PSYC 35
SOCIAL PSYCHOLOGY
Prerequisite: PSYC 1 or SOC 1
A general survey of some of the major areas of interpersonal behavior: affiliation, aggression, social influence, attitudes, groups, social norms, and personality. Also listed as SOC 30. Credit to be given in either area, not both.

PSYC 33
PSYCHOLOGY OF ADJUSTMENT
Introductory course in adjustment and human relationships; focuses on personality development, interpersonal relationships, human motivation, and the relevance of psychology to social processes and critical developmental issues. Course may be offered by meditated mode of instruction.

PSYC 37
ABNORMAL BEHAVIOR
Prerequisite: PSYC 1
An introduction to descriptive and explanatory study of psychoses, neuroses, character disorders, and other abnormal personality patterns.

PSYC 106
BEHAVIOR MODIFICATION
Recommended Preparation: PSYC 1
Principles of learning theory and application to human behavior analysis.

PSYC 150
INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY
Emphasizes the role and philosophy of the psychologist working in the field of organizational/industrial psychology. The psychological principles, theories, and assumptions which guide the psychologist and human-factors specialist includes a review and critique of current research and development work in the field.

PSYC 189
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

PSYC 289
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

Psychiatric Technology

PT 100
PRINCIPLES OF PHARMACOLOGY
Recommended Preparation: HS 101
Introduces principles of therapeutic pharmacology, pharmaceutical calculations, drug names, drug classifications, drug actions and interactions, and routes and methods of drug administration.

PT 102
PHARMACY IN HEALTH OCCUPATIONS
Recommended Preparation: PT 100 and HS 101
Studies principles of therapeutic pharmacology, pharmaceutical calculations, drug names and classifications, drug actions and interactions, and routes and methods of drug administration.

PT 103
PSYCHODYNAMICS OF PATIENT CARE
Surveys socio-cultural, psychological, and emotional components involved in health and illness throughout the life cycle. Focuses on thoughts and feelings of patients and health-care workers. Emphasis is placed on communication skills, interpersonal interactions, and the therapeutic use of self. Letter grade only.

PT 201
INTRODUCTION TO THE DEVELOPMENTALLY DISABLED PERSON
This is one of a series of courses intended for those who wish to work with the developmentally disabled and their families. Instruction includes an examination of etiology and prognosis for development disabilities. Additionally, emphasis is placed on client rights, legal issues, bioethics, and potential goals for persons with disabilities.

PT 205
CARE OF THE PERSON WITH DEVELOPMENTAL DISABILITIES
Recommended Preparation: PT 201
This is one of a series of courses intended for those who wish to work with the developmentally disabled and their families. Instruction includes the planning, implementation, and evaluation of care for persons with specific developmental disabilities. Emphasis is placed on teaching/learning principles and the socialization process.

PT 216
CARE OF THE MODERATELY DEVELOPMENTALLY DISABLED
Prerequisite: Admission to the Psychiatric Technician Program clinical sequence and completion of or concurrent enrollment in PT 201
Provides experience in care of the ambulatory developmentally-disabled client in both community facilities and state facilities. Emphasis is on developing skills to assist the client in activities of daily living. Completion partially meets the clinical requirement of the State Board of Psychiatric Technician Examiners. Letter grade only.

PT 217
CARE OF THE SEVERELY DEVELOPMENTALLY DISABLED
Prerequisite: Admission to the Psychiatric Technician Program clinical sequence and completion of or concurrent enrollment in PT 205
Provides experience in care of the assaultive and profoundly developmentally-disabled client. Emphasis is on development of behavior-modification techniques, management of assaultive and self-destructive behaviors, and provision of nursing care to totally dependent clients. Completion partially meets the clinical requirements of the State Board of Psychiatric Technician Examiners. Letter grade only.
### CARE OF THE MENTALLY ILL

**Prerequisite:** Admission to the Psychiatric Technician Program clinical sequence and completion of or concurrent enrollment in PT 228

Provides experience in care of both acute and chronic mentally-ill clients in the state hospital setting. Emphasis is on developing therapeutic interviewing skills and on assessment and intervention in behaviors exhibited by clients who are psychotic. Completion partially meets the clinical requirement of the State Board of Psychiatric Technician Examiners. Letter grade only.

**Course Title:** CARE OF THE MENTALLY ILL

**Course Number:** PT 218

**Hours:** 4/12/0

### CARE OF THE MENTALLY ILL IN THE COMMUNITY

**Prerequisite:** Admission to the Psychiatric Technician Program clinical sequence and completion of or concurrent enrollment in PT 228

Provides experience in care of mentally-ill clients in a community hospital setting. Emphasis is on assessment and intervention for clients with behaviors characteristic of neuroses, substance abuse, and eating disorders. Students will also attend treatment programs within the community where these behaviors are treated. Completion partially meets the clinical requirement of the State Board of Psychiatric Technician Examiners. Letter grade only.

**Course Title:** CARE OF THE MENTALLY ILL IN THE COMMUNITY

**Course Number:** PT 219

**Hours:** 2.5/7.5/0

### FUNDAMENTALS OF NURSING FOR PSYCHIATRIC TECHNICIANS

**Prerequisite:** Admission to the Psychiatric Technician Program

Provides principles and practice of fundamental skills and procedures necessary to provide health care at a beginning level for hospitalized persons with medical and surgical problems. Focuses on the utilization of medical asepsis and other principles of safe practice in the performance of manual skills and procedures. Introduces theories and principles of pain management.

**Course Title:** FUNDAMENTALS OF NURSING FOR PSYCHIATRIC TECHNICIANS

**Course Number:** PT 221

**Hours:** 6.5/2.5/12

### MEDICAL-SURGICAL NURSING FOR PSYCHIATRIC TECHNICIANS

**Prerequisite:** PT 221, 221L and 221C with grades of "C" or better

Involves the biopsychosocial aspects of rendering care for persons with medical and surgical problems. Topics of study include the nursing process related to alterations in the following areas: neurological functioning, the senses, oxygenation, fluid and electrolytes, endocrine function, nutrition, elimination, exercise and rest, and protective function. Additionally, the following special care areas will be covered: cancer care, care of the patient requiring surgical intervention and care of the geriatric patient.

**Course Title:** MEDICAL-SURGICAL NURSING FOR PSYCHIATRIC TECHNICIANS

**Course Number:** PT 222

**Hours:** 7/3/12

### NEUROPSYCHIATRIC CONCEPTS

**Recommended Preparation:** Admission to the Psychiatric Technician Program

Emphasizes psychological and sociocultural concepts used in planning care for mentally-ill clients. Development of interviewing skills through clinical practice focusing on care of clients with neurotic, psychotic, personality, and psychophysiological disorders and organic brain syndrome.

**Course Title:** NEUROPSYCHIATRIC CONCEPTS

**Course Number:** PT 228

**Hours:** 5/5/0

### SPECIAL TOPICS

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar will differ from other offerings in the same course.Accordion

**Course Title:** SPECIAL TOPICS

**Course Number:** PT 289

**Hours:** 0.5-4/.5-4/.5-9

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### REAL ESTATE

#### REAL ESTATE PRINCIPLES

The fundamental real estate course covering the basics and principles of California real estate. It provides the background and terminology necessary for advanced study in specialized courses. Required for those preparing for the state Real Estate Salesperson License examination. Applications toward state's elective educational requirements for the broker's examination. Department of Real Estate (DRE) basic education, and Office of Real Estate Appraisers (OREA) basic and continuing education. Course may be offered by mediated mode of instruction.

**Course Title:** REAL ESTATE PRINCIPLES

**Course Number:** RE 170

**Hours:** 3/3/0

#### REAL ESTATE PRACTICE

Day-to-day ethical operations in real estate sales and brokerage, including listing, prospecting, advertising, financing, sales techniques, and escrow. Applications toward state's educational requirements for the 18-month completion of the Real Estate Salesperson License. Applications toward state's core educational requirements for the broker's examination. Applications toward Department of Real Estate (DRE) basic education and Office of Real Estate Appraisers (OREA) basic and continuing education. Course may be offered by mediated mode of instruction.

**Course Title:** REAL ESTATE PRACTICE

**Course Number:** RE 172

**Hours:** 3/3/0

#### LEGAL ASPECTS OF REAL ESTATE

A study of California real estate law, including rights incident to property ownership and management, agency, and contracts. Also includes application to real estate transfer, conveyancing, probate proceedings, trust deeds, and foreclosures, as well as recent legislation governing real estate transactions. Applications toward State's elective educational requirements for the 18-month completion of the Real Estate Salesperson License. Applications toward state's elective educational requirements for the broker's examination. Applications toward Department of Real Estate (DRE) basic education. Course may be offered by mediated mode of instruction.

**Course Title:** LEGAL ASPECTS OF REAL ESTATE

**Course Number:** RE 174

**Hours:** 3/3/0

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### Additional Courses

- **Course Title:** INTRODUCTION TO FINANCIAL PLANNING
  - **Course Number:** ACCT 220
  - **Hours:** 3/3/0
RE 175
REAL ESTATE FINANCE
3/3/0
Recommended Preparation: RE 170
Analysis of real estate financing, including lending policies and problems in financing transactions in residential, apartment, commercial, and special-purpose properties. Methods of financing properties are emphasized. Applies toward state’s elective educational requirements for the 18-month completion of the Real Estate Salesperson License. Applies toward state’s core educational requirements for the broker’s examination. Applies toward Department of Real Estate (DRE) basic education. Applies toward Office of Real Estate Appraisers (OREA) basic and continuing education. Course may be offered by mediated mode of instruction.

RE 176A
REAL ESTATE APPRAISAL I
3/3/0
Recommended Preparation: RE 170
An introductory course covering the purposes of an appraisal; the appraisal process; and the different approaches, methods, and techniques used to determine the value of various types of property. Emphasis will be on residential and single-unit property. Applies toward State’s elective educational requirements for the 18-month completion of the Real Estate Salesperson License. Applies toward state’s core educational requirements for the broker’s examination. Applies toward Department of Real Estate (DRE) continuing education hours and/or basic education. Applies toward Office of Real Estate Appraisers (OREA) basic and continuing education. Course may be offered by mediated mode of instruction.

RE 176B
REAL ESTATE APPRAISAL II
3/3/0
Recommended Preparation: RE 176A
An advanced course in real estate appraisal with emphasis on investment-property appraisal. Includes the appraisal of certain types of apartment properties. Concepts of loan appraisal and various methods of appraisal are delineated and are included in a student project. Applies toward state’s core educational requirements for the broker’s examination.

RE 177
REAL ESTATE ECONOMICS
3/3/0
Recommended Preparation: RE 170
Covers trends and factors which affect the value of real estate; the nature and classification of land economics; the development of property, construction, and subdivisions; economic values and real estate evaluation; real estate cycles and business fluctuations; residential market trends; property; and special-purpose property trends. Applies toward state’s elective educational requirements for the 18-month completion of the Real Estate Salesperson License. Applies toward state’s core educational requirements for the broker’s examination. Course may be offered by mediated mode of instruction.

RE 180
SPECIAL TOPICS
3/3/0
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

RE 181
ESCROW I
3/3/0
Provides primary information about escrow. Topics will include terminology, documentation, related service fields, fiduciary, and ethical responsibilities, as well as how to open, execute, and close a simple escrow. The course will not qualify the student as an escrow officer. Applies toward state’s elective educational requirements for the 18-month completion of the Real Estate Salesperson License. Course may be offered by mediated mode of instruction.

RE 182
ESCROW II
3/3/0
Recommended Preparation: RE 190
An advanced study of modern escrow. This course will provide the student with an in-depth examination of the most common or general escrow through the actual opening, execution, and closing of an escrow.

RE 183
ESCROW III
3/3/0
Recommended Preparation: RE 191
Case study of in-depth escrow. This course will provide the student with actual escrow case studies that are commonly found throughout the escrow profession. Additional study is planned for specialized transactions applying escrow office techniques to classroom situations.

RE 185
PROPERTY MANAGEMENT
3/3/0
Recommended Preparation: RE 170
Covers the fundamentals of professional property management of investment properties: residential, commercial, and industrial. Focuses on organization, staffing, marketing, accounting, maintenance, landlord/tenant law, and management procedures. Designed for the real estate practitioner who wishes to specialize in property management. Applies toward the state’s elective educational requirements for the 18-month completion of the Real Estate Salesperson License. Applies toward the state’s elective educational requirements for the broker’s examination. Applies toward Department of Real Estate (DRE) basic education. Course may be offered by mediated mode of instruction.

RE 189
UNIFORM STANDARDS OF PROFESSIONAL APPRAISAL PRACTICE (USPAP)
1.5/1.5/0
An introductory course covering real estate appraisal professional practice and ethics. The course covers the history of professionalism and appraising, the Appraisal Foundation, and the Uniform Standards of Professional Appraisal Practice. R E 3

RE 200
PRACTICAL RESIDENTIAL APPRAISAL TECHNIQUES
3/3/3
Recommended Preparation: CIM 174B or 174, and RE 176A
A basic education course in real estate appraisal with emphasis on practical skills used to develop and communicate a residential appraisal report. Includes topics such as regional data sources, appraisal software, Fannie Mae (FNMA) form reports, technology in appraising, business practices, case studies, and field experiences. Applies toward State’s Basic Education Topics for the Office of Real Estate Appraisers (OREA). R E 1

RE 201
REAL ESTATE SALES: LICENSE PREPARATION
3/3/0
The Real Estate Sales License Preparation course provides the fundamental information regarding the practice of real estate. Emphasis is placed upon real estate law and its influence upon the state examination. Assists those preparing specifically for the Real Estate Salesperson’s License examination. Course may be offered by mediated mode of instruction.
**Sign Language**

**SL 1**
**AMERICAN SIGN LANGUAGE I**
4/4/0
Beginning study of American Sign Language (ASL) fundamentals emphasizing comprehension skills, basic information relating to deaf culture, and beginning grammatical structure. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60 for 30 contact hours. Equivalent to 2-year high school ASL. (Formerly SL 32)

**SL 2**
**AMERICAN SIGN LANGUAGE II**
Prerequisite: SL 1
4/4/0
Continuing study of American Sign Language (ASL) fundamentals emphasizing comprehension skills, intermediate grammatical structures, beginning practice in expressive aspects of the language, and exposure to deaf culture. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60 for 30 contact hours. (Formerly SL 33)

**SL 3**
**AMERICAN SIGN LANGUAGE III**
Prerequisite: SL 2
4/4/0
Continuation of American Sign Language (ASL) shifting focus from comprehension to sign production. Includes advanced grammatical structures, with emphasis on advanced expressive skills. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60 for 30 contact hours. (Formerly SL 34)

**SL 4**
**AMERICAN SIGN LANGUAGE IV**
Prerequisite: SL 3
4/4/0
Emphasizing advanced expressive/communicative skills in American Sign Language (ASL). Develops fluency and a continued focus on grammatical and cultural features. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60 for 30 contact hours. (Formerly SL 35)

**SL 101**
**DEAF PEOPLE IN THE COMMUNITY**
3/3/0
Designed for those interested in sociology of deafness as it relates to the culture of people in the community. Emphasis is also on the history and evolution of education of the hearing-impaired. (Formerly SL 128)

**SL 102**
**IMPLICATIONS OF DEAFNESS**
3/3/0
Gives students a view of deafness as it relates to the deaf person’s language development, education, and personal and social development. Directed toward students interested in special education and interpreting as well as for hearing-impaired persons who desire more information. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60 for 30 contact hours. (Formerly SL 137)

**SL 103**
**SIGN LANGUAGE INTERPRETING I**
Prerequisite: SL 4
3/3/0
Prepares students with sign language skills for entry-level interpreting in various settings. Includes consideration of styles and techniques of interpreting, ethics, and the role of the interpreter for the deaf. Provider-approved by the California Board of Registered Nursing, Provider Number CEP60 for 30 contact hours. (Formerly SL 136)

**SL 104**
**SIGN LANGUAGE INTERPRETING I LAB**
Prerequisite: SL 4
1/2/0
Provides advanced practice and review for interpreting for the deaf in a variety of settings. Emphasis will be placed on preparation for interpreter evaluation. (Formerly SL 138) R E 3

**SL 105**
**SIGN LANGUAGE INTERPRETING II**
Prerequisite: SL 103 and 104
3/3/0
Provides advanced practice and review for interpreting for the deaf in various settings. Prepares the student for entry-level employment as an interpreter for the deaf. (Formerly SL 140)

**SL 106**
**SIGN LANGUAGE INTERPRETING II LAB**
Prerequisite: SL 103 and 104
1/2/0
Provides practice in interpreting for the deaf for students enrolled in the advanced interpreting course. (Formerly SL 139) R E 3

**SL 107**
**INTERPRETING SIGN TO VOICE**
Prerequisite: SL 105 AND 106
3/3/0
Provides students with advanced interpreting skills, utilizing a demonstration-lecture format. Emphasizes reverse interpreting. (Formerly SL 141)

**SL 189**
**SPECIAL TOPICS**
5/4/5-4/5-9
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
Sociology

**SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**SOC 10**

**INTRODUCTION TO MARRIAGE AND THE FAMILY**

Emphasis on kinship systems, mate selection, and child-rearing practices, as well as the family in relation to social change. Course may be offered by mediated mode of instruction.

**SOC 15**

**SOCIALIZATION OF THE CHILD**

The scientific study of societal institutions which socialize the child, such as the family, school, peer group, community, and media within the context of culture, religion, economics, politics, and change. Major theoretical perspectives will be examined.

**SOC 20**

**ETHNIC CULTURES OF THE UNITED STATES**

A general overview of the sociological, psychological, and historical background of selected ethnic groups in the United States. Also listed as HIST 20. Credit to be given in either area, not both.

**SOC 21**

**WOMEN IN CONTEMPORARY SOCIETY**

An introductory survey of the lives and roles of women in contemporary society. Topics covered include sexuality and intimate relationships, crime and deviance, work, religion, politics, and the changing construction of the American family.

**SOC 25**

**SOCIAL STRATIFICATION**

Recommended Preparation: SOC 1

An examination of the American social-class structures and their functions. Different styles of life, determinants of class status, vertical social mobility, and changes in class systems are discussed and evaluated.

**SOC 30**

**SOCIAL PSYCHOLOGY**

Prerequisite: PSYC 1 or SOC 1

A general survey of some of the major areas of interpersonal behavior, affiliation, aggression, social influence, attitudes, groups, social norms, and personality. Also listed as PSYC 30. Credit to be given in either area, not both.

**SOC 189**

**SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

Spanish

**SPAN 1**

**ELEMENTARY SPANISH**

Corequisite: SPAN 999A

Recommended Preparation: College-level reading ability

Designed to develop the fundamentals of communicative competence in colloqial Spanish. The emphasis is on listening, comprehension, and conversational skills. Early reading and writing skills are introduced, as well as fundamental aspects of culture. Equivalent to two years of high school Spanish.

**SPAN 1A**

**INTRODUCTORY ELEMENTARY SPANISH**

Corequisite: SPAN 999A

Recommended Preparation: College-level reading ability

Designed to develop fundamentals of communicative competence in daily spoken Spanish. Elementary reading and writing will be introduced, as well as fundamental aspects of culture. Introductory Elementary SPAN 1A is equivalent to the first half of a regular elementary language course. Upon completion of its continuation, SPAN 1B, students may enroll in the second semester of a normally paced language program. Combination of SPAN 1A and 1B is equivalent to two years of high school Spanish.

**SPAN 1B**

**CONTINUING ELEMENTARY SPANISH**

Prerequisite: SPAN 1A

Corequisite: SPAN 999A

Reviews and expands the fundamentals of communicative competence in daily spoken Spanish. There is increased emphasis on reading and writing skills, as well as fundamental aspects of culture. SPAN 1B is equivalent to the second half of a regular elementary language course. Upon completion, students may enroll in SPAN 2. Combination of SPAN 1A and 1B is equivalent to two years of high school Spanish.
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<thead>
<tr>
<th>Course Prefix</th>
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<th>Course Title</th>
<th>Units</th>
<th>Lecture Hours Per Week</th>
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<td>INTERMEDIATE SPANISH GRAMMAR AND COMPOSITION</td>
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<td>INTRODUCTION TO LEARNING DISABILITIES</td>
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**SPAN 2 ELEMENTARY SPANISH**
Prerequisite: SPAN 1 or 1B or two years of high school Spanish
Corequisite: SPAN 999A
Designed to further the fundamentals of communicative competence in daily spoken Spanish. Although the focus remains on listening and speaking comprehension and speaking, reading and writing skills will be expanded. This course continues the familiarization with customs and cultural achievements begun in the previous semester.

**SPAN 3 INTERMEDIATE SPANISH**
Prerequisite: SPAN 2 or three years of high school Spanish
Corequisite: SPAN 999B
Reviews the fundamentals with further study of the Spanish language and culture.

**SPAN 4 INTERMEDIATE SPANISH**
Prerequisite: SPAN 3 or four years of high school Spanish
Corequisite: SPAN 999B
Emphasizes fluency in speaking, reading, writing, and comprehension of Spanish, adding selected readings and discussions from the basic four genres in Spanish and Spanish-American literature and culture.

**SPAN 5 SPANISH FOR SPANISH SPEAKERS**
Prerequisite: Knowledge of Spanish at SPAN 4 level
Designed for students of Hispanic background who speak Spanish and want to improve their formal knowledge of the language. Brief review and intensive practice of fundamentals of Spanish grammar followed by study and application of advanced grammatical concepts. Practice in writing essays and summaries in Spanish based on a variety of topics and sources. Continues to refine speaking and listening skills. R E 1

**SPAN 6 INTERMEDIATE SPANISH GRAMMAR AND COMPOSITION**
Prerequisite: SPAN 4
Brief review and intensive practice of fundamentals of Spanish grammar followed by study and application of advanced grammatical concepts. Practice in writing essays and summaries in Spanish based on a variety of topics and sources. Continues to refine speaking and listening skills. R E 1

**SPAN 10 INTERMEDIATE CONVERSATIONAL SPANISH**
Prerequisite: SPAN 2 or three years of high school Spanish
Designed to develop fluency in Spanish. The emphasis is on both formal and informal expression and conversation in Spanish. R E 3

**SPAN 20A CIVILIZATION OF SPAIN THROUGH 1898**
Prerequisite: SPAN 2 or three years of high school Spanish
Focuses on the geography, history, and institutions of Spain, life and culture of the people, literature, music, and art. Conducted in Spanish.

**SPAN 20B CIVILIZATION OF SPAIN 1898 TO PRESENT**
Prerequisite: SPAN 2 or three years of high school Spanish
Focuses on the geography, history, and institutions of Spain, life and culture of the people, literature, music, and art. Conducted in Spanish.

**SPAN 21A CIVILIZATION OF LATIN AMERICA THROUGH 1900**
Prerequisite: SPAN 2 or three years of high school Spanish
Focuses on the geography, history, and institutions of Latin America, life and cultures of the people, literature, music, and art through 1900. Conducted in Spanish.

**SPAN 21B CIVILIZATION OF LATIN AMERICA 1900-PRESENT**
Prerequisite: SPAN 2 or three years of high school Spanish
Focuses on the geography, history, and institutions of Latin America, life and culture of the people, literature, music, and art from 1900 to present. Conducted in Spanish.

**SPAN 250 PRACTICAL SPANISH**
A basic course in Spanish emphasizing conversational skills as applied to everyday situations including business, travel, and related topics. Consideration also given to cultural topics. Assumes no prior knowledge of the language. R E 1

**SE 101 INTRODUCTION TO THERAPY AND REHABILITATION**
Designed to provide information and practical experience in pursuing a career in physical therapy, occupational therapy, recreational therapy, adaptive physical education, or any other area which involves working with physically-disabled populations.

**SE 112 EXCEPTIONAL CHILDREN**
An introduction to special education. This course offers a survey and study of various characteristics of exceptional children. Range from the gifted and talented child to the severely retarded, this course will facilitate a better understanding of children with special needs. Also listed as HD 112. Credit given in either area, not both.

**SE 142 INTRODUCTION TO LEARNING DISABILITIES**
This course is designed as an introduction to the field of learning disabilities. Lecture and discussion topics include identification and diagnosis, etiology, current trends and issues, remedial techniques, and compensatory strategies for working with individuals with learning disabilities.
SE 170 3/3/0
INTRODUCTION TO PERCEPTUAL-MOTOR DEVELOPMENT
A survey of perceptual-motor skills, sensory systems and abilities of children, and how they relate to the development of self-concept and academic readiness. This course will explore movement, education, visual and auditory perception, and teaching through sensory motor experiences. Students will participate in designing a program in movement education. Also listed as HD 170. Credit given in either area, not both.

SE 189 .5-4/.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

SE 289 .5-4/.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

SPS 115 3/3/0
ALTERNATIVE LEARNING STRATEGIES
Recommended Preparation: Diagnostic assessment
This course provides students with learning disabilities an opportunity to identify their individual learning styles and to develop effective individualized study and test-taking strategies. The course introduces learning disability terms and concepts and various learning modes and encourages students to explore alternative learning strategies and study techniques.

SPS 205 1.5/1.5/0
PERSONAL DEVELOPMENT
Designed to help disabled individuals achieve better self-understanding: improve self-esteem; learn about college policies, programs, and services; and develop more effective interpersonal communication skills and college survival skills. R E 3

PENDING STATE APPROVAL)

SPS 210 3/3/0
MEMORY AND ATTENTION SKILLS
Recommended Preparation: Conference with college Special Services counselor or specialist.
Designed to provide students with disabilities an understanding of how memory is organized and how it works. Focused on the relationships between attention and memory and discuss factors which impact these skills. Students will identify individual attention and memory difficulties and learn strategies to compensate for deficits. R E 3

SPS 289 .5-4/.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

SPS 300 0/0/.5
EDUCATIONAL ASSESSMENT AND PLANNING
Recommended Preparation: Conference with Special Services counselor or specialist
Designed to assess and evaluate cognitive performance and achievement levels for the purpose of determining eligibility for services in the learning disabilities program. Develops the student education contract/plan and determines appropriate accommodations. Offered on an open-entry/open-exit basis. R E 1

SPS 305 1.5/1.5/0
CAREER PLANNING
Recommended Preparation: Verification of disability
Students explore the essential elements of wise career choices, planning and decision-making, with special attention to the unique needs and concerns of students with disabilities.

SPS 315 .5 or 1 or 1.5/0/1 or 2 or 3
LEARNING DEVELOPMENT PRACTICUM
Designed as specialized prescriptive instruction based on individual needs focusing on basic skills development. Structured for the student with learning disabilities and is offered on an open-entry/open-exit, credit/no-credit basis. R E 3

SPS 320A 3/3/0
COMPUTATIONAL SKILLS FOR STUDENTS WITH SPECIAL NEEDS
Recommended Preparation: Verification of disability and conference with disability specialist. Arithmetic skill level at 4th grade or above.
Designed for students with disabilities who do not learn basic mathematical skills in the traditional classroom setting. Instruction focuses on the computation and application problem-solving of whole numbers, fractions, and decimals, and on the development of learning and compensatory strategies and techniques that apply to mathematics. R E 1

SPS 320B 3/3/0
COMPUTATIONAL SKILLS FOR STUDENTS WITH DISABILITIES
Recommended Preparation: Verification of disability and successful completion of SPS 320A
Designed for students with disabilities who do not learn basic mathematical skills in the traditional classroom setting. Instruction focuses on the computation and application problem-solving of ratios and proportions, percents, the real number system, and introduction to algebra, and on the reinforcement of learning and compensatory strategies and techniques that apply to mathematics. R E 1

SPS 330 3/3/0
WRITING DEVELOPMENT PRACTICUM
Recommended Preparation: Diagnostic assessment
This course is designed as specialized prescriptive instruction based on diagnosis of individual need in the specific area of written communication. This course is structured for the student with specific learning disabilities. R E 1

SPS 340 3/3/0
PHONETIC STRUCTURE FOR READING AND SPELLING
Designed as specialized prescriptive instruction based on diagnosis of individual need in the specific areas of spelling and reading. Structured for the student with learning disabilities. R E 3

SPS 345 3/3/0
BEGINNING LIPREADING
This course is designed to enable students to develop and practice lipreading skills necessary for social functioning. The course will also help the student to better understand his or her own hearing loss. R E 1

SPS 346 3/3/0
ADVANCED LIPREADING
This course is designed as a continuation of the introductory course. Emphasis will be placed on making use of available auditory and visual cues in social situations. R E 1
SPS 347
BEGINNING LIPREADING
This course is designed to enable students to develop and practice lipreading skills necessary for social functioning. The course will also help the student to better understand his or her own hearing loss. R E 99

SPS 348
ADVANCED LIPREADING
This course is designed as a continuation of the introductory course. Emphasis will be placed on making use of available auditory and visual cues in social situations. R E 99

SPS 350
BEGINNING COMPUTER TECHNOLOGY FOR STUDENTS WITH DISABILITIES
Recommended Preparation: Verification of disability and/or diagnostic assessment. Provides students with physical and/or learning disabilities techniques for accessing a computer and increasing their productivity. Includes an evaluation of the student's learning and computer access needs followed by individualized or small group instruction in access technology use and adaptive strategies. R E 3

SPS 351
ADVANCED COMPUTER TECHNOLOGY FOR STUDENTS WITH DISABILITIES
Recommended Preparation: Verification of disability and/or diagnostic assessment. Provides students with physical and/or learning disabilities training in more advanced concepts using their prescribed access technology. Students will enhance their computer-access skills through completion of assigned projects. R E 3

SPS 352
COMPUTER-ACCESS PROJECTS FOR STUDENTS WITH DISABILITIES
Recommended Preparation: Verification of disability and/or diagnostic assessment. Recommend completion of SPS 350 or previous comparable experience. Designed for students who have completed regular High Tech Center curriculum and who need to use their access technologies to complete homework or special projects. Students in this course need individualized instruction with specific applications of the access technology. R E 3

SPS 360
COMPUTER-ACCESS LAB FOR STUDENTS WITH DISABILITIES
Recommended Preparation: Verification of disability and/or diagnostic assessment. Ability to work independently with access technology. Provides supervised hands-on opportunities to acquire and reinforce skills using computers, software, and access technology for students with disabilities. R E 3

SPS 389
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

Special Studies Workshop
SPSW 1
SPECIAL STUDIES WORKSHOP
A Special Studies Workshop course may be offered in any division subject matter to allow groups of students to pursue study with an instructor for nontraditional educational experiences where regular course offerings are not available for interdisciplinary study, to experiment with pilot courses, or to meet particular community educational needs. Prior to enrollment, a learning contract is executed whereby the contracted hours and areas of study are clearly delineated, as well as the means of subject matter mastery and evaluation. A Special Studies Workshop course proposal requires the approval of the appropriate department and the Office of Instruction.
SP 8  GENDER COMMUNICATION
A course which focuses on the interactive relationships between gender and communication designed to enable the student to better understand how communication takes place between men and women in various settings. Study will focus on verbal and nonverbal aspects of communication; social and cultural expectations and roles; and problem analysis and decision-making specific to gender conflict. The course will enable students to appreciate gender differences and to listen and interact more effectively.

SP 20  INTERCULTURAL COMMUNICATIONS
Designed to reveal how culture influences interaction patterns. As people from different communication climates interact, the markings of culture and perception have an impact on communication. The course will familiarize students with the theory and the process of communicating with people across cultural, ethnic, and racial divides. Students will be left with a better understanding of the meaning of culture and communication. The process of becoming a competent intercultural communicator will be explored through lectures, readings, discussions, and written and oral assignments. Also listed as ANTH 20. Credit given in either area, not both.

SP 30  INTRODUCTION TO ORAL INTERPRETATION
A class in the survey of prose, poetry, and drama. Course will focus on the analysis and criticism of literature, examine various interpretive theories within the context of the period written, and will manifest understanding of readings with presentational performance of literary selections. Also listed as TA 30. Credit given in either area, not both.

SP 32  READERS’ THEATRE
Recommended Preparation: SP 30 or TA 30
A course stressing the techniques of script preparation, direction, and staging of literature. Coursework will culminate in a student-performed and directed Readers’ Theatre. Also listed as TA 32. Credit to be given in either area, not both. Fulfills Humanities requirement.

SP 35  VOICE AND DICTATION
Emphasizes principles and practices in vocal and articulatory development and control, drills in phonation, resonance and vocal variety, drills for clarity and ease in articulation. Also listed as TA 35. Credit to be given in either area, not both. R E 3

SP 106  FORENSICS ACTIVITY
Emphasizes preparation and presentation of materials for college-sponsored speech and forensic activities, tournaments and festivals, high school assemblies, and civic organizations. Events include debate, public speaking, and oral interpretation. Participation is required for credit. This course may be offered as open-entry/open-exit and units may vary according to time and activity involved. R E 3

SP 189  SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
TA 17 1 or 2/0/3 or 6
REHEARSAL AND PERFORMANCE: MIXED GENRES
Emphasizes the preparation of comic productions of mixed genres for public performance including acting, technical, and production management. TA 17 is an open-entry/open-exit course. R E 3

TA 18 1 or 2/0/3 or 6
REHEARSAL AND PERFORMANCE: DANCE
Emphasizes the preparation of a dance production, including dance concerts, musical theatre production, and operas. TA 18 is an open-entry/open-exit course. R E 3

TA 19 1 or 2/0/3 or 6
REHEARSAL AND PERFORMANCE: MUSICAL THEATRE
Emphasizes the preparation of musical theatre productions comprised of mixed genres for public performance including acting, technical, and production management. TA 19 is an open-entry/open-exit course. R E 3

TA 20 3/3/0
THEATRE APPRECIATION
A course examining theatre history, the role of the actor and director, and exemplary plays. Attendance at scheduled field trips to community and professional theatre performances and evaluation and criticism of productions are required.

TA 22 3/3/0
MUSICAL THEATRE HISTORY AND APPRECIATION
Introduces the student to the history and literature of the musical theatre from mid-19th century to present day. Explores the stylistic distinctions found in the musical as well as its social and cultural significance. Emphasis is placed on the contributions and influence of the individual writer, composer, or lyricist.

TA 25 3/3/0
THEATRE HISTORY: PRIMITIVE TO RENAISSANCE
Reading and discussion of representative plays from the major eras of world drama. Development of the play script in themes, characterization, and dramatic structure from primitive ritual through the great playwrights of Greece, Rome, and Medieval and Renaissance Europe. Consideration of philosophical and cultural backgrounds and production styles influencing the staging of the plays.

TA 26 3/3/0
THEATRE HISTORY: RENAISSANCE TO CONTEMPORARY
Reading and discussion of significant plays selected from the major forms of world drama since the Renaissance. Emphasis on themes, characterization, and philosophical and cultural influences on content and production styles.

TA 30 3/3/0
INTRODUCTION TO ORAL INTERPRETATION
A class in the survey of prose, poetry, and drama. Course will focus on the analysis and criticism of literature, examine various interpretive theories within the context of the period written, and will manifest understanding of readings with presentational performance of literary selections. Also listed as SP 30. Credit to be given in either area, not both.

TA 32 3/3/2
READERS’ THEATRE
Recommended Preparation: SP 30,31 or TA 30,31
A course stressing the techniques of script preparation, direction, and staging of literature. Coursework will culminate in a student-performed and directed Readers’ Theatre. Applies toward Humanities requirement. Also listed as SP 32. Credit to be given in either area, not both.

TA 35 3/3/0
VOICE AND DICTIO
Emphasizing principles and practices in vocal and articulatory development and control; drills in phonation, resonance, and vocal variety; drills for clarity; and ease in articulation. Also listed as SP 35. Credit to be given in either area, not both.

TA 40 3/2/3
STAGECRAFT
Principles and techniques of stagecraft, including stage terminology, theatre architecture, scenic construction, painting, tools, materials, and production organization.

TA 41 3/2/3
STAGE LIGHTING
A study of stage lighting dealing with the role of the lighting designer in a theatrical production team. Included is a historical background as well as the technical mechanics of theatrical lighting.

TA 42 3/2/3
COSTUME DESIGN
Involves the study of the principles of costume design, the basic process of design, character analyses, and rendering techniques. A survey of fashion history and study of will be included in the lectures. Crew assignments for major productions will provide instruction in construction techniques.

TA 43 1/3/0
STAGE MAKE-UP
A study of theory and practice in make-up for the stage. Emphasis on the development of individual skill in techniques of character analysis, application in pigment, hair design, and selection and use of equipment. Crew assignment for college productions is required and will provide instruction in make-up techniques.

TA 44 2/1/3
THEATRE SCENERY PAINTING
A study of the elements of theatrical scenery painting, including historical and present-day methods with practical applications through class efforts of scenery painting, as well as individual scene-painting projects.

TA 45 3/2/3
SCENE DESIGN
Recommended Preparation: TA 40 or 41
An introduction to the art of scene design, including an investigation of the elements of design in relation to the aesthetic and dramaturgical demands of theatre art; the interrelationship of theatre design functions; and an analysis of space, movement, mood, period, style, and color the execution of design ideas through techniques of rendering, model-making, drafting, and presentation.

TA 51 1 or 1.5/.67 or 1/1.33 or 2
INTRODUCTION TO BALLET
Recommended Preparation: TA 52 or PE 51
Designed for students with no experience in dance as well as those wishing to perfect basic dance skills. Fundamentals of ballet techniques are presented and practiced in class with presentations of historical and stylistic perspectives of this dance form. An emphasis is on class participation to provide the student with knowledge and understanding of the physical demands of ballet dance. A combination of TA/PE 51, 52, and 53 may be taken four times. Also listed as PE 51. Credit to be given in either area, not both. R A 3

TA 52 1 or 1.5/.67 or 1/1.33 or 2
BALLET DANCING, LEVEL I
Recommended Preparation: TA 51 or PE 51
Designed to teach the fundamentals of ballet. Technical work at the ballet barre, center-floor exercises, and adagio and allegro work. A combination of TA/PE 51, 52, and 53 may be taken four times. Also listed as PE 52. Credit to be given in either area, not both. R A 3

TA 53 1 or 1.5/.67 or 1/1.33 or 2
INTERMEDIATE BALLET
Recommended Preparation: TA 52 or PE 52
Emphasis on improving individual skills. Continued technical work at the ballet barre. A combination of TA/PE 51, 52, and 53 may be taken four times. Also listed as PE 53. Credit to be given in either area, not both. R A 3
**INTRODUCTION TO MODERN DANCE**

Designed for students with no experience in dance as well as those wishing to perfect basic dance skills. Fundamentals of modern dance techniques are presented and practiced in class, and presentation of historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of modern dance. A combination of TA/PE 54, 55, and 56 may be taken four times. Also listed as PE 54. Credit to be given in either area, not both.  

**TA 54 1 or 1.5/.67 or 1/1.33 or 2**

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**MODERN DANCE LEVEL I**

Recommended Preparation: TA 54 or PE 54

Instruction and supervised practice to develop the body for communication of feeling and idea through movement. A combination of TA/PE 54, 55, 56 may be taken four times. Also listed as PE 55. Credit to be given in either area, not both.  

**TA 55 1 or 1.5/.67 or 1/1.33 or 2**

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**INTERMEDIATE MODERN DANCE**

Recommended Preparation: TA 55 or PE 55

Increased techniques in modern dance with emphasis on improving individual skills. Continued development of the body for communication through movement. A combination of TA/PE 54, 55, and 56 may be taken four times. Also listed as PE 56. Credit to be given in either area, not both.  

**TA 56 1 or 1.5/.67 or 1/1.33 or 2**

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**INTRODUCTION TO JAZZ DANCING**

Recommended Preparation: TA 57 or PE 57

Designed for students with no experience in dance as well as those wishing to perfect basic dance skills. Fundamentals of jazz-dance technique are presented and practiced in class with presentation of the historical and stylistic perspectives of this dance form. An emphasis is placed on class participation to provide the student with knowledge and understanding of the physical demands of jazz dancing. A combination of TA/PE 57, 58, and 59 may be taken four times. Also listed as PE 57. Credit to be given in either area, not both.  

**TA 57 1 or 1.5/.67 or 1/1.33 or 2**

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**JAZZ DANCING LEVEL I**

Recommended Preparation: TA 57 or PE 57

Basic jazz techniques, center and locomotor combinations, and original routines set to jazz music. A combination of TA/PE 57, 58, and 59 may be taken four times. Also listed as PE 58. Credit to be given in either area, not both.  

**TA 58 1 or 1.5/.67 or 1/1.33 or 2**

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**INTERMEDIATE JAZZ DANCING**

Recommended Preparation: TA 58 or PE 58

Basic skills of jazz dancing with emphasis on improving individual techniques. Includes more emphasis on improving individual techniques and more advanced jazz techniques with original routines set to music. A combination of TA/PE 57, 58, and 59 may be taken four times. Also listed as PE 59. Credit to be given in either area, not both.  

**TA 59 1 or 1.5/.67 or 1/1.33 or 2**

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**INTRODUCTION TO TAP DANCING**

Recommended Preparation: TA 60 or PE 60

Basic tap dance techniques, tap dance combinations, and original tap dances. A combination of TA/PE 60, 61, and 62 may be taken four times. Also listed as PE 60. Credit to be given in either area, not both.  

**TA 60 1 or 1.5/.67 or 1/1.33 or 2**

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**TAP DANCING, LEVEL I**

Recommended Preparation: PE 60

Basic tap dance techniques, tap dance combinations, and original tap dances. A combination of TA/PE 60, 61, and 62 may be taken four times. Also listed as PE 61. Credit to be given in either area, not both.  

**TA 61 1 or 1.5/.67 or 1/1.33 or 2**

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**INTERMEDIATE TAP DANCING**

Recommended Preparation: TA 61 or PE 61

Review and continuation of basic skills of tap dancing with emphasis on improving individual techniques. More advanced steps and dance combinations will be presented. A combination of TA/PE 60, 61, and 62 may be taken four times. Also listed as PE 62. Credit to be given in either area, not both.  

**TA 62 1 or 1.5/.67 or 1/1.33 or 2**

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**EXERCISE FOR DANCERS**

Recommended Preparation: PE 62

Content will emphasize all forms of dance as they relate to dance in America, including ethnic forms, ballet, modern, jazz, and tap. Content will emphasize the ritual, social, and theatrical aspects of dance. The course will include some reference to other art forms and the humanities. Videotapes and slides will be integrated as visual aids. Also listed as PE 64. Credit to be given in either area, not both.  

**TA 64 3/3/0**

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**CREATIVE DRAMATICS**

Recommended Preparation: TA 64

Provides a general history of various dance forms as they relate to dance in America, including ethnic forms, ballet, modern, jazz, and tap. Content will emphasize the ritual, social, and theatrical aspects of dance. The course will include some reference to other art forms and the humanities. Videotapes and slides will be integrated as visual aids. Also listed as PE 64. Credit to be given in either area, not both.  

**TA 108 3/2/3**

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**CHICANO/LATINO THEATRE**

Recommended Preparation: TA 64

Focuses on the evolution of Chicano/Latino dramatic literature, course will analyze playwrights and theatre groups that express the Chicano/Latino experiences in the United States, examining relevant "actos", plays, and documentaries to their contributions in the development of the Chicano/Latino Theatre movement.  

**TA 113 1 or 2/0/3 or 6**

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**REHEARSAL AND PERFORMANCE: CHILDREN'S THEATRE**

Recommended Preparation: TA 113

A course emphasizing the preparation of play production for the child audience for public performance, including acting, technical, and production management. TA 113 is an open-entry/open-exit course.  

**TA 114 3/3/0**

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**THEATRE MANAGEMENT**

Recommended Preparation: TA 114

A course emphasizing the preparation of play production for the child audience for public performance, including acting, technical, and production management. TA 113 is an open-entry/open-exit course.  

**TA 130 3/2/3**
TA 231 COMPANY THEATRE CONSERVATORY: MOVEMENT
Limitation: By audition only
This course is an offering for the student specializing in dance and theatre movement training for a specific theatrical production or other specialized conservatory training. By utilizing the conservatory method of education, guest artists, staff, and more mature student artists will educate the less experienced student in a continuing program of rehearsal, self-analysis, discussion, lecture, and performance. R E 3

TA 232 COMPANY THEATRE CONSERVATORY: MUSICAL THEATRE
Limitation: By audition only
This course is an offering for the student specializing in musical theatre training as cast or orchestra member for a specific theatrical production or other specialized conservatory training. By utilizing the conservatory method of education, guest artists, staff, and more mature student artists will educate the less experienced students in a continuing program of rehearsal, self-analysis, discussion, lecture, and performance. R E 3

TA 233 COMPANY THEATRE CONSERVATORY: MANAGEMENT AND DESIGN
Limitation: By audition only
This course is an offering for the student specializing in theatre management and design training for a specific theatrical production or other specialized conservatory training. By utilizing the conservatory method of education, guest artists, staff, and more mature student artists will educate the less experienced student in a continuing program of technical design and production meetings, rehearsals, technical rehearsals, self-analysis, discussion, lecture, and performance. R E 3

TA 234 COMPANY THEATRE CONSERVATORY: PRODUCTION
Limitation: By audition only
This course is an offering for the student specializing in theatre production training for a specific theatrical production or other specialized conservatory training. By utilizing the conservatory method of education, guest artists, staff, and more mature student artists will educate the less-experienced student in a continuing program of stagecraft, lighting, sound, costumes, make-up, technical rehearsals, and crewings of performances. R E 3

TA 235 COMPANY THEATRE CONSERVATORY: DRAMATURGY
Limitation: By audition only
This course is an offering for the student specializing in dramaturgy training for a specific theatrical production or other specialized conservatory training. By utilizing the conservatory method of education, guest artists, staff, and more mature student artists will educate the less experienced student in a continuing program of criticism, discussion, lecture, and attendance at conservatory performances. R E 3

TA 246 THEATRE AUDIO TECHNIQUES
Explore the role of a sound designer in a theatrical production, from equipment to design. Emphasizes current processes and application through discussion and hands-on training. Class covers recording and reinforcement techniques, mixing, microphones, signal processing, and digital editing.

Travel Management

TM 250 DOMESTIC AIRLINE TICKETING AND RESERVATIONS
An introduction to the basics of the travel industry designed for new employees of travel agencies, for persons interested in becoming travel agents or airline reservationists, and for employees in corporate travel departments. Methods and practices for locating itineraries, routes, tariffs and fares; writing airline tickets for domestic airlines including Hawaii; and using reference sources are stressed. Industry regulations are covered.

TM 251 INTERNATIONAL TICKETING AND RESERVATIONS
Recommended Preparation: TM 250
Continued study of airline ticketing with an introduction to the basics of international ticketing. Emphasis will be given to routing, scheduling, excursion fares to various world destinations, and entry requirements to foreign countries.

TM 252 WORLD DESTINATIONS AND RESORTS—WESTERN HEMISPHERE
Covers hotels, sightseeing, and tourist attractions and local transportation in major travel destinations within the Western Hemisphere. Areas covered include Hawaii, Alaska, Caribbean, Mexico, United States, South America, Central America, and Canada.
TM 253 3/3/0
WORLD DESTINATIONS AND RESORTS—EUROPE
Covers hotels, sightseeing, and tourist attractions and local transportation in major travel destinations within Europe.

TM 254 3/3/0
WORLD DESTINATIONS AND RESORTS—PACIFIC, ASIA, AFRICA
Covers hotels, sightseeing and tourist attractions and local transportation in major travel destinations within the Pacific, Asia, and Africa.

TM 255 3/3/0
TRAVEL SALES AND MARKETING
Designed for new employees of travel agencies or persons interested in becoming travel agents, group-sales specialists, tour escorts, or travel photojournalists. Provides the methods and practices of promoting and marketing many aspects of the travel industry.

TM 256 3/3/0
CRUISES AND CRUISING
Methods and practices for booking cruises worldwide.

TM 257 1.5/1.5/0
TOURS
Methods and practices for booking tours worldwide. Fundamentals of F.I.T. (Foreign Independent Tours), group tours, and wholesale tour-planning are also covered.

TM 258 1.5/1.5/0
AIRLINE COMPUTER TRAINING
Recommended Preparation: TM 250 and 251
Developed for advanced travel management students. Emphasis on basic Sabre Computer training including P.N.R. (Passenger Name Record) completion.

TM 259 2/1/2
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

TU 100 2/1/2
FUNDAMENTALS OF PEER TUTORING
A general introduction to the role of the tutor in education. The course will focus on the practical skills necessary to function effectively as a peer tutor in the student's chosen area of study. Training in empathy, listening skills, assertion, and other human-relations techniques will be provided. Individual differences in learning styles will be discussed, and the importance of encouraging independence and good study habits will be stressed. Students will participate in supervised tutoring in the college Learning Assistance Program.

TU 300 0/0/1 or 6 or 12
SUPERVISED TUTORING
Designed to provide assistance for students (learners) who require additional help in attaining comprehension and competency in learning skills. Students are assisted by trained tutors who promote self-regulated learning, critical thinking, and problem solving on the part of student learners. Students are trained to monitor their own learning processes. This course is open-entry/open-exit. R E 99

WS 10 3/3/0
INTRODUCTION TO WOMEN'S STUDIES
This course is an interdisciplinary introduction to Women’s Studies. It will analyze the traditional views of women as individuals, members of families, and members of societies. The perspective will be both historical and cross-cultural. Course may be taught by mediated mode of instruction.

WS 21 3/3/0
ETHNIC WOMEN’S ISSUES IN CONTEMPORARY AMERICAN SOCIETY
This course surveys ethnic women’s issues from a cross-cultural perspective. It examines the commonalities and differences among women due to race, gender, and class. The study will include Native-American women, Chicanas, and Americans of European, African, Asian, and Latin descent.
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<th>Course Prefix</th>
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<tr>
<td>ACCT</td>
<td>220</td>
<td>Introduction to Financial Planning</td>
<td>3/3/0</td>
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Emeritus Accounting

ACCT 229X 0/2/0
IMPROVING INVESTMENT PERFORMANCE (EI)
Designed for improving investment performance for the beginner and the experienced investor. Provides information on preservation and growth of financial assets. R E 99

ACCT 231X 0/2/0
ESTATE PLANNING (EI)
Discusses taxes, administration, and distribution of estates. Emphasizes revocable living trusts, wills, probate, tenancy, and health care alternatives. R E 99

ACCT 232X 0/1 or 2/0
STOCKS AND BONDS MANAGEMENT (EI)
Studies global economics, bond markets, stock markets, and mutual funds. Course is structured to help investors develop their own investment philosophy. R E 99

ACCT 299 .5-4/.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

Emeritus Art

ART 10X 0/5 or 1/1 or 2
CERAMICS, HANDBUILDING (EI)
A practical and historical introduction to the material involving all aspects of the ceramics process. The course will include handbuilding, trimming and finishing, firing and glazing. R E 99

ART 11X 0/5 or 1/1 or 2
CERAMICS, BEGINNING WHEEL (EI)
Introduction to beginning techniques of ceramics wheel building, with emphasis on traditional shapes and forms. Will include wheel throwing techniques, trimming, finishing, firing and glazing. R E 99

ART 12X 0/5 or 1/1 or 2
CERAMICS, INTERMEDIATE (EI)
Covers theory, materials and techniques of ceramics at an intermediate level. Includes design-forming techniques, including use of the potter’s wheel, glazing and firing. R E 99

ART 13X 0/5 or 1/1 or 2
CERAMICS, ADVANCED (EI)
This course will direct advanced projects in ceramics with emphasis on use of the potter’s wheel as a major tool. Special attention on the evaluation of forms as related to the creative use of ceramic concepts and materials will be emphasized. Design, forming and glazing techniques will be presented. R E 99

ART 14XA 0/1/2
CERAMICS, SLIPCASTING, BEGINNING (EI)
Includes theory and techniques in ceramics including pouring slip into molds (slipcasting), finishing, carving, underglaze, glaze, overglaze applications, and firing. R E 99

ART 14XB 0/1/2
CERAMICS, SLIPCASTING, INTERMEDIATE (EI)
Intermediate level theory and technique in low firing clay to high porcelain slipcasting. Exploration of basic functions, forms, color, glazing and decorative techniques. R E 99

ART 14XC 0/1/2
CERAMICS, SLIPCASTING, ADVANCED (EI)
Advanced ceramic slipcasting techniques including concepts which allow greater exploration of personal work. Advanced glaze concepts and ceramic product exploration will be emphasized including red and specialty glazes and advanced use of forms. R E 99

ART 14XD 0/1/2
ART OR CERAMIC DECORATING (EI)
Theory and techniques for application of translucent underglaze, review of basic underglaze, techniques in specialty glaze, transfer designs. Students advanced projects will provide for application of theory and practice of techniques. R E 99

ART 15X 0/1/2
FABRIC DRAPING PORCELAIN (EI)
Explores the theory and practice of draping porcelain figures. Casting the mold, lace and fabric draping, china painting, spray glazing. Repetition of the course will promote mastery of art and skill. R E 99

ART 20X 0/1 or 2/0
ART APPRECIATION (EI)
An introduction to the visual arts. The course will focus on the fundamentals of composition in the arts as well as the major developmental events that have shaped the direction of Western art. R E 99

ART 25X 0/2/0
ART HISTORY (EI)
Reviews the history of Western art. Focuses on major works of lasting significance from primitive to modern. R E 99

ART 26X 0/2/0
ART FORMS (EI)
Provides a survey of fine and decorative arts throughout history. The interaction of textiles, furniture, and ceramics with the “fine” arts of painting, drawing, sculpture and architectural applications will be explored. R E 99

ART 28X 0/2/0
CONTEMPORARY ART AND CULTURE (EI)
Provides a survey of fine and decorative arts throughout history. The interaction of textiles, furniture, and ceramics with the “fine” arts of painting, drawing, sculpture and architectural applications will be explored. R E 99

ART 31XA 0/2/1
INTARSIA, BEGINNING (EI)
Studies the different types of intarsias; landscape, geometric designs, color designs, faces and people, birds and animals. How to select a picture for intarsia. How to enlarge or reduce a picture. How to select stones and cement them together. How to finish and frame. Description of channel work and how it is used by the intarsist. R E 99

ART 31XB 0/1/2
INTARSIA, INTERMEDIATE (EI)
Designed to develop a perspective of intarsia by size and color, working with larger and more difficult intarsia including more details on faces, animals and birds. Advanced methods in pointing and fitting of stones. Description of channel work and how it is used by the intarsist. R E 99

ART 33XA 0/1/2
ENAMELING, BEGINNING (EI)
Introductory studio course on basic enameling techniques for the beginner. R E 99

ART 33XB 0/1/2
ENAMELING, INTERMEDIATE (EI)
A studio course emphasizing traditional and contemporary concepts, processes and techniques in enameling at an intermediate level. R E 99

ART 34XA 0/1/2
CHINA PAINTING-CLEAR, DESIGN (EI)
Designed to explore and practice techniques of Chinese painting with an emphasis on color and design. It will touch on European, conventional and naturalistic designs. Techniques using inking, gold, enameling lustre. This class allows for a wide range of creative expression. R E 99

ART 35XA 0/1/2
STAINED GLASS, BEGINNING (EI)
Designed for beginners to explore and practice techniques of stained and leaded glass art and/or copper-foil technique in Tiffany lampshades or panel projects. R E 99
ART 35XB  
STAINED GLASS, ADVANCED (EI)

- Designed for students to practice techniques of stained and leaded glass art and/or copper-foil technique in Tiffany lampshades or panel projects. Adorned projects using acid etching, jewelry making, and fusing and slumping will be completed.  R E 99

ART 36XA  
JEWELRY METAL FABRICATION, BEGINNING (EI)

- This course includes theory, demonstration and practice in design and construction of jewelry made by fabrication methods for decorative wear suitable to the design and function. Repetition of course will allow greater skill and mastery of the art.  R E 99

ART 36XC  
JEWELRY METAL FABRICATION, ADVANCED (EI)

- This course offers advanced theory, fabrication techniques and materials in more complex jewelry and metal fabrication. Included are metal chain construction, stone mountings, box construction, fringes, repousse, milling, textured surfaces and bead construction. Efficient production methods will be discussed. Individual attention to student projects of special interest will be offered.  R E 99

ART 39XB  
JEWELRY DESIGN, LOST WAX, INTERMEDIATE (EI)

- Introduction to advanced methods, materials and practice in the construction of jewelry by the lost wax method. Design and development of complex projects including mold making, finishing and decoration.  R E 99

ART 50X  
OIL PAINTING, BEGINNING (EI)

- Includes the basic elements of drawing, color, design and painting as the student learns the use of materials and techniques. Encouragement and emphasis are given to individual style and expression.  R E 99

ART 51X  
OIL PAINTING, INTERMEDIATE (EI)

- Designed for students who have some basic knowledge of color, composition and perspective and who wish to improve techniques, develop creativity and use their own resource materials. Introduction of techniques into abstract and non-objective painting.  R E 99

ART 52X  
OIL PAINTING, ADVANCED (EI)

- Designed for students who have some basic knowledge of color, composition and perspective and who wish to improve techniques, develop creativity and use their own resource materials. Introduction of techniques into abstract and non-objective painting.  R E 99

ART 53X  
PAINTING IN SUBJECT AREAS (EI)

- Provides theory and demonstration of materials, applications and techniques in a variety of subject matter and art mediums. Various exercises in the use of materials, composition, perspective and values.  R E 99

ART 54X  
PORTRAIT PAINTING IN OILS, WATERCOLOR AND PASTELS (EI)

- Concentration on constructing the head and features using multi-media. Topics include choosing a pose, lighting, and backgrounds. Demonstrations in oils, watercolors and pastels.  R E 99

ART 55X  
CHINESE BRUSH PAINTING, BEGINNING (EI)

- Provides an introduction to the techniques of Chinese Brush Painting. Practice traditional subjects including bamboo, orchid, plum and landscape. Concepts in design and composition. Traditional mounting of completed paintings.  R E 99

ART 55XC  
CHINESE BRUSH PAINTING, ADVANCED (EI)

- Includes the exploration of the various schools of Chinese brush art. Emphasis on techniques and styles of composition using both black and white and color.  R E 99

ART 58X  
WATERCOLOR, BEGINNING (EI)

- Basic methods of applying watercolor in washes, color mixing and brush technique. The spontaneity of transparent watercolor will be stressed and explored.  R E 99

ART 59X  
WATERCOLOR, INTERMEDIATE/ADVANCED (EI)

- Utilizing and incorporating color mixing in a broader palette for washes, glazing and spontaneous interpretation of the subject matter. An increasing emphasis will be placed on individual exploration with the medium.  R E 99

ART 61XA  
LAPIDARY, BEGINNING (EI)

- Lapidary machines for cutting and polishing gemstones: slabsaw, trim saw, grinders, sanders, lapping wheels, polishers and drills. Study of Agate, Jasper and thirty-one special stones: their occurrence, hardness, luster and toughness; how to cut, trim, grind, dop, sand, polish and set gemstones. Description of channel work and intarsia and how it is used by the lapidary. Repetition of this course will allow increased skills and content mastery.  R E 99

ART 61XB  
LAPIDARY, INTERMEDIATE (EI)

- Include instruction in cutting and polishing 30 gemstones making paperweights and bookends and use of lap wheels. Discussion topics will cover the following: what makes a gemstone, how they occur, types of gemstone deposits, luster, hardness, toughness, and complex lapidary machines. Description of channel work and intarsia and how it is used by the lapidary.  R E 99

ART 70X  
SCULPTURE, BEGINNING (EI)

- Introduces sculptural ideas, issues and techniques in clay, wood and various other media. The student will apply theory and techniques of sculpture in selected materials.  R E 99

ART 71X  
SCULPTURE, INTERMEDIATE (EI)

- Includes the creation of sculpture in contemporary as well as historic styles. The optional use of ceramic clay, soft stone and synthetic modeling materials. Some emphasis on both the human and animal figure.  R E 99
ART 72X 0/1/2
SCULPTURE, ADVANCED (EI)
Advanced study and evaluation of forms as related to the creative use of sculptural concepts and materials. Creative expression will be encouraged in a choice of mediums. R E 99

ART 80X 0/.5 or 1/1 or 2
SKETCHING, BEGINNING (EI)
Basic drawing techniques with emphasis on individual artistic expression. Still life, student model, and some location work will be done in simple classic media of pencil, charcoal and pastel. R E 99

ART 81X 0/.5 or 1/1 or 2
SKETCHING, INTERMEDIATE (EI)
Classic sketching media will be used in still life, landscapes and life drawing. Builds upon basic drawing techniques. R E 99

ART 82X 0/1/2
SKETCHING, ADVANCED (EI)
Includes theories and techniques in contour drawing, life drawing, gesture drawing and still life drawing. Abstract concepts, shading techniques and line will be emphasized as ways to explore drawing what is seen and felt. Opportunity for experimentation in media and concept will be given. R E 99

ART 85X 0/.5 or 1/1 or 2
LIFE DRAWING, BEGINNING (EI)
Includes the fundamental structure of the human body, including skeletal and muscular systems. Sketching and drawing exercises will be pursued to allow students maximum practice in achieving and ability to portray the body with reasonable accuracy, using line as practical exposition. R E 99

ART 144XA 0/1/1
CALLIGRAPHY, BEGINNING (EI)
An introductory course relating to the basic principles of various kinds of calligraphy and chancery cursive writing. The course will include spacing techniques and relationships, tools and terminology. R E 99

ART 221 .5 or 1/1 or 2/0
ART APPRECIATION (EI)
Designed to develop an understanding of historical and contemporary art forms, including examples of painting, sculpture, and architecture. R E 3

ART 226 .5 or 1/1 or 2/0
SURVEY OF ART HISTORY: RENAISSANCE TO MODERN (EI)
Emphasizes the historical development of painting, sculpture, and architecture, including philosophical and cultural perspectives. R E 3

ART 228 1/2/0
CONTEMPORARY ART HISTORY (EI)
Emphasizes the historical development of painting, sculpture, and architecture, including philosophical and cultural perspectives in the 20th century. Includes an in-depth study of surrealism, cubism, abstractionism, op, pop, and realism. R E 3

ART 299 .5-4/5-4/5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

ASTR 202 1/2/0
CONDITIONS FOR LIFE IN THE UNIVERSE (EI)
Recommended Preparation: None
An exploration into the conditions within the universe, which may be suitable for the evolution of life. The orientation of the course will focus on individual inquiry and group examination within the framework of current knowledge. R E 3

ASTR 299 .5-4/5-4/5-9
SPECIAL TOPICS
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BIO 224 1/1/2
NATURAL HISTORY OF SOUTHERN CALIFORNIA (EI)
Acquaints the non-biology major with the basic physical and biological aspects of the coastal, valley, mountain, and desert environments of Southern California. R E 3

BIO 226 1/1/2
BIRDS OF SOUTHERN CALIFORNIA (EI)
Discussion topics will include bird annectry, evolution, systematics, distribution, topography, behavior (song, territoriality, migration), and techniques of field identification of birds. Laboratory studies will involve field and laboratory identification of the birds of Southern California. Field trips will be required to fulfill the objectives of this course. R E 3

BIO 228 1/2/0
CONTEMPORARY ART HISTORY (EI)
Emphasizes the historical development of painting, sculpture, and architecture, including philosophical and cultural perspectives in the 20th century. Includes an in-depth study of surrealism, cubism, abstractionism, op, pop, and realism. R E 3

BIO 299 .5-4/5-4/5-9
SPECIAL TOPICS
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BUS 299 .5-4/5-4/5-9
SPECIAL TOPICS
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Emeritus Courses

BUS 110XA 0/1/2
CLOTHING CONSTRUCTION, BEGINNING (EI)
An introductory sewing course emphasizing the operation of a sewing machine, pattern reading and garment construction. Basic sewing techniques needed to construct a blouse, skirt or simple dress will be covered. R E 99

BUS 110XB 0/1.5/1.5
CLOTHING CONSTRUCTION, INTERMEDIATE (EI)
Clothing construction and pattern alterations for personal wardrobe requirements of the student through coordination of commercial patterns, fabric textures and principles of color design. R E 99

CT 110X 0/1/2
CLOTHING CONSTRUCTION, ADVANCED (EI)
Application of advanced techniques in construction of garments. Use of designer patterns and adapting patterns for a more personal style. Handling of such special fabrics as linen, man-made furs, velvet, silk, crepes and lace. Fine custom details such as lining and underlining. R E 99

CT 130X 0/1/2
BASIC PATTERN CUSTOMIZING (EI)
Student will develop a basic pattern made to fit individual measurements. A basic pattern will be made in muslin and transferred to a permanent Pelon-made pattern. Students will also learn to alter commercial patterns to their own figures. R E 99

Emeritus Business

Emeritus Astronomy

Emeritus Biology
Emeritus Courses

Emeritus Computer and Information Management

CIM 200 COMPUTER FUNDAMENTALS (EI)
Provides a strong foundation for the novice interested in learning the nature and functions of computers, data processing, and information systems. Includes the basics of computer hardware, software, and systems.  R E 3

CIM 201 INTRODUCTION TO COMPUTER APPLICATIONS (EI)
Introduction to computer concepts, vocabulary, characteristics, capabilities, and operation. Hands-on application of software packages including word processing.  R E 3

CIM 212 SPREADSHEETS (EI)
Provides information on Excel and other spreadsheet software packages. Includes preparation of reports containing numeric data and interpretation of that data, including database capabilities such as sorting data and extracting information from the data.  R E 3

Emeritus English

ENG 3X INTRODUCTION TO CREATIVE WRITING (EI)
Essentials in creative writing, including basics of manuscript preparation, techniques of fiction and nonfiction and function of writing tools.  R E 3

ENG 4X CREATIVE WRITING ADVANCED (EI)
Offers an in-depth study of prose including organization, classification, comparison and contrast, cause and effect, and definition and development for nonfiction and fiction. Point of view; plot description; characterization; dialogue; narration; theme; and sights, sounds, and sensation will also be discussed.  R E 3

ENG 6X NON-FICTION WRITING (EI)
Includes techniques and practice in writing nonfiction articles, essays, and biographical sketches. Emphasis will be placed on writing for publication.  R E 3

ENG 40XA THE BIBLE AS LITERATURE: GENESIS TO PSALMS (EI)
Presentation and discussion of the Old Testament, including the Books of Genesis to the Psalms, in a non-theological approach with emphasis on the literary modalities and ontological content. Geographical, historical, and cultural determinants will be considered.  R E 3

ENG 40XA THE BIBLE AS LITERATURE: GOSPELS TO GOSPELS (EI)
Presentation and discussion of the later books of the Old Testament, the Apocryphal Books of the Inter-Testamental Period and the teachings of Jesus. Presented in the Synoptic Gospels in a non-theological approach with emphasis on the literary modalities and ontological content.  R E 3

Emeritus Communication Arts

CA 7OX VIDEO PRODUCTION (EI)
Gives the student the skills and knowledge needed to produce video presentations that will place emphasis upon production skills. Basic skills will be applied to producing a program from existing skills or original footage. Production, production, and post-production editing will be taught to optimize the output.  R E 3

CA 299 SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course.  R E 3

Emeritus Computer and Information Management

CIM 200 COMPUTER FUNDAMENTALS (EI)
Provides a strong foundation for the novice interested in learning the nature and functions of computers, data processing, and information systems. Includes the basics of computer hardware, software, and systems.  R E 3

CIM 201 INTRODUCTION TO COMPUTER APPLICATIONS (EI)
Introduction to computer concepts, vocabulary, characteristics, capabilities, and operation. Hands-on application of software packages including word processing.  R E 3

CIM 212 SPREADSHEETS (EI)
Provides information on Excel and other spreadsheet software packages. Includes preparation of reports containing numeric data and interpretation of that data, including database capabilities such as sorting data and extracting information from the data.  R E 3
**Emeritus Foods and Nutrition**

**GERO 120X**

**PHYSICAL FITNESS/WEIGHT CONTROL (EI)**

Designed to inform students about the risk factors contributing to cardiovascular disease. Each student will develop an individual program of weight control including measures for blood pressure control; caloric intake and energy expenditure; body composition; lipid analysis; aerobic conditioning and nutritional analysis. R E 99

**GERO 150X**

**0/1.5/1.5**

**PHYSICAL FITNESS/WEIGHT MAINTENANCE (EI)**

The principles of achieving and maintaining ideal body composition through specific exercises and lectures on proper eating techniques. Students will be closely supervised in a group setting of discussion and exercise to enhance motivation. The course includes pre and post individual percent body fat evaluation. R E 99

**GERO 299**

**0/5/5,5/5,5/5**

**SPECIAL TOPICS**

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**Emeritus French**

**FR 299**

**0/5/4,5/4,5/4**

**SPECIAL TOPICS**

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**Emeritus Geology**

**GEOL 299**

**0/5/4,5/4,5/4**

**SPECIAL TOPICS**

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**Emeritus German**

**GER 299**

**0/5/4,5/4,5/4**

**SPECIAL TOPICS**

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**Emeritus Health**

**HLTH 299**

**0/5/4,5/4,5/4**

**SPECIAL TOPICS**

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**Emeritus Health Science**

**HSC 105X**

**0/2/0**

**CONSUMER HEALTH ISSUES (EI)**

Designed to aid in maintaining health to make knowledgeable and discriminating decisions. Includes health economics, frauds, legislation, advertising, and insurance. Includes choice and use of doctor, pharmacist, and health care agencies. R E 99

**Emeritus Studies**

**ENV 299**

**0/5/4,5/4,5/4**

**SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**ENG 40XA**

**0/2/0**

**THE BIBLE AS LITERATURE: BIBLE/HISTORICAL LITERATURE COMPARATIVE ANALYSIS (EI)**

Presentation and discussion of the dynamic role of biblical concepts, types, and images in Western civilization and literature. Examination of the vital impact of biblical typology and symbolism in everyday behavior. R E 99

**ENG 52X**

**0/1.5 or 3/0**

**FILM AS LITERATURE (EI)**

Includes an examination of the film as a 20th century art form. Considers both foreign and domestic cinema with attention given to film in terms of archetype, myth, symbol, characterization, and plot. R E 99

**ENG 217**

**1/3/0**

**WRITING THE FICTION AND/OR NONFICTION BOOK (EI)**

Designed to assist students in the planning, development, and marketing of both fiction and nonfiction. R E 3

**ENG 246**

**0/1.5/0**

**IMAGES OF WOMEN IN LITERATURE (EI)**

Examination of the portrayal of women in poetry, essay, short story, novel, and drama by both male and female authors. Designed for both men and women. R E 3

**ENG 299**

**0/5,4,5/4,5/4**

**SPECIAL TOPICS**

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**Emeritus Environmental Studies**

**ENV 224**

**1/3/0**

**ECOLOGICAL STUDY OF SOUTHERN CALIFORNIA (EI)**

Basic physical environmental and ecological aspects of the coast, valley, mountain, and desert environments of Southern California. R E 3

**ENV 299**

**0/5,4,5/4,5/4**

**SPECIAL TOPICS**

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**Emeritus German**

**GER 299**

**0/5,4,5/4,5/4**

**SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**Emeritus Health Science**

**HSC 105X**

**0/2/0**

**CONSUMER HEALTH ISSUES (EI)**

Designed to aid in maintaining health to make knowledgeable and discriminating decisions. Includes health economics, frauds, legislation, advertising, and insurance. Includes choice and use of doctor, pharmacist, and health care agencies. R E 99

**Emeritus Gerontology**

**GERO 150X**

**0/1.5/1.5**

**PHYSICAL FITNESS/WEIGHT MAINTENANCE (EI)**

The principles of achieving and maintaining ideal body composition through specific exercises and lectures on proper eating techniques. Students will be closely supervised in a group setting of discussion and exercise to enhance motivation. The course includes pre and post individual percent body fat evaluation. R E 99

**GERO 299**

**0/5,4,5/4,5/4**

**SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**Gerontology**

**GERO 299**

**0/5,4,5/4,5/4**

**SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**Gerontology**

**GERO 299**

**0/5,4,5/4,5/4**

**SPECIAL TOPICS**

The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3
**Emeritus History**

**HIST 204**  
**WESTERN CIVILIZATION TO 1648 (EI)**  
Surveys near-Eastern and European civilizations from prehistoric times to the 17th century. Special emphasis is given to the development of civilization in the Mediterranean world and its expansion into Europe, the Near East, Greece, Rome, the Medieval period, Renaissance, and the Reformation. **R E 3**

**HIST 205**  
**WESTERN CIVILIZATION SINCE 1648 (EI)**  
Surveys the nature of Western Civilization and its development since the 17th century to the present. Major emphasis placed on industrialization, nationalism, imperialism, and selected problems of the 21st century. **R E 3**

**HIST 216**  
**SURVEY OF AMERICAN INSTITUTIONS (EI)**  
Surveys the integration of American political, economic, and social institutions. Emphasis will be upon development of political and economic systems as reflected in culture, literature, and art. **R E 3**

**HIST 217**  
**GREAT LIVES IN HISTORY (EI)**  
Surveys great personalities that have made unique contributions which have influenced history. **R E 3**

**HIST 220**  
**TERRORISM AND INSURGENCY SINCE WORLD WAR II (EI)**  
Studies the major historical and current issues dealing with terrorism and insurgency since the end of World War II. The Palestine Liberation Organizations, the Shiites and the use of surrogates in the East-West struggle will be discussed. Terrorism will be approached by the act itself, rather than by the identity of the perpetrator. **R E 3**

**HIST 232**  
**CALIFORNIA HISTORY: 1) EARLY CALIFORNIA (EI)**  
Surveys California from the early Spanish explorations through the Spanish and Mexican periods to the American conquest and the signing of the Treaty of Guadalupe Hidalgo in 1848. Includes the Gold Rush period. **R D 3**

**HIST 232**  
**CALIFORNIA HISTORY: 3) STATEHOOD TO PRESENT (EI)**  
Studies California’s rise from Spanish agrarian society to the present multi-racial industrial state. **R E 3**

**HIST 240**  
**ENGLISH HISTORY AND CULTURE (EI)**  
Presents an overview of English history from the Roman conquest to the rise and decline of the British Empire. Emphasis on the transition from aristocratic to parliamentary government. **R E 3**

**HIST 260**  
**RUSSIAN HISTORY: CULTURE AND ARTS (EI)**  
Overview of Russian history from the 10th century to the present explaining the intellectual currents which led to the Russian Revolution. Examines various aspects of Russian culture, religion, customs, and particularly literature and art. **R E 3**

**HIST 261**  
**RUSSIA, ROAD TO WORLD POWER (EI)**  
Overview of the Russian Revolution and the events which led to the Soviet Union becoming a world power. Soviet foreign and domestic policy will be discussed within the context of Marxist-Leninist philosophy. **R E 3**

**HIST 270**  
**HISTORY AND CULTURE OF ASIA (EI)**  
Presents an overview of the historical events related to social, political, and economic changes in Asia. Includes the impact of modernization, technology, and nationalism. **R E 3**

**HIST 275**  
**CONTEMPORARY MIDDLE EAST (EI)**  
Major political, economic, and social institutions and movements of the Middle East from World War I to the present. Emphasis on problems of the developing Middle Eastern nations and the Arab-Israeli conflict. Introduction to Islamic religious institutions emphasizing their importance to the contemporary scene. **R E 3**

**HIST 299**  
**SP TPS: HISTORICAL PERSPECTIVE OF NATIONAL IDENTITIES**  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. **R E 3**

**Emeritus Hebrew**

**HEBR 299**  
**SPECIAL TOPICS**  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. **R E 3**

**Emeritus Horticulture**

**HORT 299**  
**SPECIAL TOPICS**  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. **R E 3**
**Emeritus Humanities**

**HUM 299**  
SPECIAL TOPICS  
0.5-4/5-4/5-9  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**Emeritus Italian**

**ITA 299**  
SPECIAL TOPICS  
0.5-4/5-4/5-9  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**Emeritus Journalism**

**JRN 299**  
SPECIAL TOPICS  
0.5-4/5-4/5-9  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**Emeritus Law**

**LGL 210**  
LAW FOR THE LAYMAN (EI)  
0/2/0  
This course provides an overview of substantive law and procedures used in a wide range of legal topics which are of particular interest to older adults. The emphasis will be on enhancing student knowledge of the law in specific areas as well as increasing awareness of their rights in legal proceedings. Topics will include contract law, real estate law, small claims court, estates and trusts, and more. R E 99

**Emeritus Marine Science Technology**

**MST 299**  
SPECIAL TOPICS  
0.5-4/5-4/5-9  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**Emeritus Music**

**MUS 19X**  
INTRODUCTION TO OPERA (EI)  
0/3/0  
Study of opera from its earliest beginnings. Techniques used by composers such as Gluck, Mozart, Rossini, Donizetti, Bellini, Verdi, Wagner, and Puccini. Life and contributions of each composer will be studied. The study of oratorio to parallel the study of opera, with appropriate musical examples to show its development. R E 99

**MUS 29X**  
WOMEN, MUSIC AND SOCIETY (EI)  
0/3/0  
A historical/societal survey of women musicians/composers from the Middle Ages to the present. The course will deal with a historical view of women’s place as creative and representative artists, the societal and political influences that governed their existence and their music, and on the actual music produced by women composers. R E 99

**MUS 295X**  
REHEARSE AND PERFORMANCE, INSTRUMENTAL (EI)  
0/.5 or 1/.5 or 1  
The preparation, study, and performing of orchestra concert repertoire for performances. Students who repeat this course will gain an expanded educational experience by supervised repetition and practice to develop skills and proficiencies. R E 99

**MUS 299**  
SPECIAL TOPICS  
0.5-4/5-4/5-9  
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. R E 3

**Emeritus Philosophy**

**PHIL 214**  
PHILOSOPHY OF RELIGION (EI)  
1/3/0  
Philosophical analysis involving the use of critical methods, without defending or rejecting any claims of religion. Topics include the nature, function, and value of religion; the relation of religion to ethics and morality; and the problems of evil. R E 99

**PHIL 215**  
COMPARATIVE RELIGIONS: 1) A SURVEY (EI)  
.5/1.5/0  
Studies primitive and major religions of mankind: Origins of primitive religions, Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, Zoroastrianism, Judaism, Christianity, and Islam. Considered in terms of their literature, rituals, and basic beliefs. R D 3

**PHIL 215**  
COMPARATIVE RELIGIONS: 2) THE NEAR EAST AND WEST (EI)  
.5/1.5/0  
Studies primitive and major religions in the Near East and the West from earliest origins in the Nile and Tigris-Euphrates and Jordan valley through development of Judaism, Christianity, and Islam as major religions in the West. R D 3

**PHIL 215**  
COMPARATIVE RELIGIONS: 3) THE EAST (EI)  
.5/1.5/0  
Studies primitive and major religions in the East—from Indus Valley in India to great river valleys of China, from the Ay- nus through contemporary Japan and island cultures of the Pacific Basin. R D 3
PHIL 221
JUDEO CHRISTIANITY: OLD TESTAMENT TO RENAISSANCE (EI)
Studies the parallel developments of the Old Testament and New Testament religious concepts and spiritual perspectives from biblical times to the dawn of the European Renaissance.  R E 3

PHIL 222
JUDEO-CHRISTIANITY: RENAISSANCE TO PRESENT (EI)
Examines the development of Western spiritual consciousness, as manifested in both the Judaic and Christian perspectives, from the Renaissance and the Age of Scientific Rationalism to the present.  R E 3

PHIL 223
WORLD RELIGIONS - EASTERN AND ISLAM (EI)
Examines the development of Eastern religious consciousness, from the Hindu Vedas and Upanishads to the modern Japanese, Zen, Buddhism, and Koan Universalism. Examines by contrast and comparison, the complementary nature of Eastern spiritual views in relation to the Judeo-Christian perspectives.  R E 3

PHIL 299
SPECIAL TOPICS
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Emeritus Photography

PHOT 30XA
SLIDE FILM COMMUNICATION, BEGINNING (EI)
Development and organization of color slide presentations including travel, photo-essay and instructional shows. Emphasizes selection of slides, organization utilizing sequences, writing narration and presentation.  R E 99

PHOT 40X
SLIDE SHOW, SCRIPT AND PRESENTATION (EI)
Covers all phases and techniques involved in the production of advanced visual/audio presentations: photo essays, documentaries, how-to's and travel shows. Includes planning, photographing, selecting slides, writing narration preparing and photographing graphics; recording commentary, music, sound effects and cues, methods of presentation including synchronization, single and multi projection.  R E 99

PHOT 50XA
PHOTOGRAPHY BEGINNING (EI)
General view of slide photography, equipment and techniques, cameras and care. Study of the important elements of composition and creative aspects of photography: aperture, speed and depth of field.  R E 99

PHOT 50XB
PHOTOGRAPHY INTERMEDIATE (EI)
Pursuit of slide enhancement through established and innovative techniques. Included will be selective focus, zooming, composition and increased visual perception; setups, lighting, lenses, cropping, mounting and adding color.  R E 99

PHOT 59XA
COLOR PRINTING BEGINNING (EI)
Techniques for making color prints from color slides and/or color negatives. Operation of an enlarger and related darkroom equipment, processing print in a tube processor and selection of filters. Finishing prints ready for presentation, including mounting and retouching.  R E 99

PHOT 59XB
COLOR PRINTING ADVANCED (EI)
Review of equipment and procedures used in color printing. Advanced techniques and additional media will be introduced. Larger format prints and allied topics of photography will be included and will supplement the laboratory work.  R E 99

Emeritus Physical Education

PE 1X
AEROBIC FITNESS FOR MATURE ADULTS (EI)
Designed to stress individual cardiovascular and respiratory levels showing how the student can use aerobicics as a way of developing and maintaining health and fitness. The activities portion of the course will be suited to the needs of the individual student, considering age, sex and general health. This class is designed for the mature adult.  R E 99

PE 2X
PERSONALIZED FITNESS (EI)
Supervised, individualized exercise program using a variety of exercise equipment. Includes the various principles and techniques of exercise as they relate to the older adult. Individual assessments will include review of medical history, resting and exercising heart rate, blood pressure, and body weight.  R E 99

PE 3X
PERSONALIZED AEROBIC FITNESS (EI)
Designed to give the student an overview of the basic concepts of cardiorespiratory fitness. Includes the importance of aerobic fitness as well as proper exercising techniques as they relate to older adults.  R E 99

PE 4X
PHYSICAL FITNESS WITH SPECIALIZED EQUIPMENT (EI)
Supervised fitness program for older adults utilizing weight lifting and aerobic equipment in a group setting. Course will emphasize scientific principles of weight lifting and individual prescriptions.  R E 99

PE 6X
PHYSICAL FITNESS (EI)
Instruction and practice for older adults in the techniques for developing, maintaining and improving physical fitness, emphasizing strength, flexibility, aerobic and neuromuscular integration.  R E 99

PE 14X
BODY RHYTHMS (EI)
Body rhythms is a fitness program which uses dance exercises which are performed to a variety of musical rhythms.  R E 99

PE 14XA
EXERCISE TO MUSIC (EI)
Presents basic rhythmic exercises through dance movements. Basic dance steps and body movements in folk music, basic ballet, modern dance and other dance forms are included in exercise to music.  R E 99
PE 299  .5-4/.5-4/.5-9  
SPECIAL TOPICS  
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Emeritus Physical Education  
Special Education  

PE 101X 0/0/2  
PHYSICAL FITNESS BACK (EI)  
Methods for the prevention and care of back problems in later adulthood. Instruction in special exercises, relaxation training and lifestyle changes to prevent back problems.  R E 99

Emeritus Physical Education Special Services

POSS 2X 0/0/1.5 or 3  
MILD WATER EXERCISE (EI)  
Consists of hydrotherapy exercise, cardiovascular conditioning and modified swimming techniques. Each student will work on an individualized program designed to meet their needs.  R E 99

Emeritus Political Science

PS 205 .5 or 1/1 or 2/0  
UNITED STATES GOVERNMENT AND POLITICS (EI)  
Overview of the structure and principles of the United States government, including the balance of power, major domestic, and foreign policy issues.  R E 3

PS 214 .5 or 1/1 or 2/0  
CURRENT ISSUES IN GOVERNMENT (EI)  
Exploration of current issues and events on global, national, and local levels. Problem areas include crime, economics, social service loads, environment, terrorism, and conflicts.  R E 3

PS 215 .5 or 1/1 or 2/0  
CALIFORNIA POLITICAL ISSUES (EI)  
Exploration of major political issues, the political parties, the role of state government branches, the effects of the news media, and lobby groups in the State of California.  R E 3

PS 245 .5 or 1/1 or 2/0  
UNITED STATES POLITICAL AND SOCIAL SYSTEMS (EI)  
Surveys the political and social systems in the United States with emphasis on their interrelationship and impact on economics and life in America today.  R E 3

Emeritus Psychology

PSYC 210 1/2/0  
COMMUNICATION IN HUMAN RELATIONSHIPS (EI)  
Surveys the channels of communication with emphasis upon methods for improving personal relationships through effective communication with individuals and groups.  R E 3

Emeritus Spanish

SPAN 201A 1/2/0  
PRACTICAL SPANISH 1A (EI)  
Basic fundamentals of Spanish for practical application. Includes reading, comprehension, speaking, and writing. Emphasis will be placed on development of conversational skills.  R A 3

SPAN 201B 1/2/0  
PRACTICAL SPANISH 1B (EI)  
Recommended Preparation: SPAN 201A  
Continuing basic fundamentals of Spanish for practical application including reading, comprehension, speaking, and writing. Emphasis will be placed on development of conversational skills.  R A 3

SPAN 202 1/2/0  
PRACTICAL SPANISH 2 (EI)  
Recommended Preparation: SPAN 201B  
Designed to further the fundamentals of communicative competence in practical Spanish. Focus is on listening, comprehension and speaking. Reading and writing skills will be expanded.  R E 3

SPAN 203 1/2/0  
PRACTICAL SPANISH 3 (EI)  
Recommended Preparation: SPAN 202  
Concentration on vocabulary and speaking with complex grammatical construction. Includes selected literature.  R E 3
Emeritus Courses

SP 205 1/3/0
BEGINNING PUBLIC SPEAKING (EI)
Surveys basics of speaking in group situations; preparation and presentation of various speeches including public speaking and oral interpretations. Includes preparation, speaking practice, and critique of speeches. RE 3

SP 299 .5-4/.5-4/.5-9
SPECIAL TOPICS
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Emeritus Theatre

TA 2X 0/1/1
BEGINNING SCENE STUDY (EI)
Concentrates on scene study, characterization and ensemble performance. Works towards development of method acting. RE 99

TA 221 1/3/0
THEATRE APPRECIATION: CONTEMPORARY OVERVIEW (EI)
A course emphasizing important playwrights, theatre genre and technical aspects, emphasizing the 20th century. Attendance at scheduled field trips to community and professional theatre performances, and evaluation and criticism of productions are required. RE 3

TA 299 .5-4/.5-4/.5-9
SPECIAL TOPICS
The Special Topics course is a grouping of short seminars designed to provide students with the latest ideas in a field of study. The course content is thematic in nature and each seminar within the course differs from other offerings in the same course. RE 3
District Administrators

Anderson, Thomas F. (2001)
Vice Chancellor, Educational Services
B.S., University of Missouri
M.Ed., University of Nevada, Las Vegas
Ph.D., University of Missouri

MacDougall, Allan B. (1987)
Director, Information Technology
B.S., California State Polytechnic University, San Luis Obispo
M.S., Ph.D., Brigham Young University

Mathur, Raghu P. (1979)
Chancellor
B.S., Banaras Hindu University, India
M.S., Califronia State University, Fresno
Ed. D., Nova Southeastern University

Poertner, Gary (1999)
Deputy Chancellor
B.S., St. Louis University
M.B.A., California State University, Long Beach

Saddleback College Administrators

Assistant Dean/Student Services and Financial Aid
B.A., California State University, Los Angeles
M.S., California State University, Fullerton

Bright, Julie A. (1989)
Dean, Health Sciences, Human Services and Emeritus Institute
B.S.N., Biola University
M.S.N., California State University, Los Angeles

Bullock, Dixie Lee (1976)
President
B.S.N., California State University, Long Beach
M.N., University of California, Los Angeles

Dean/Counseling Services and Special Programs
B.A., California State University, Fresno
M.A., Azusa Pacific College

Cifone, Rocco J. (2001)
Dean, Fine Arts, Physical Education and Athletics
B.A., M.A., San Diego State University

Flanigan, Patricia (2000)
Dean/Social and Behavioral Sciences
B.A., M.A., University of California, Los Angeles
Ed.D., University of La Verne

Hodge, Vern M. (1983)
Vice President for Student Services
B.A., M.S., California State University, Fullerton

Lipold, Anthony (2001)
Assistant Dean, Athletic Director
B.A., California State University, Fullerton
M.S., National University, San Diego

O’Connor, Kevin (1999)
Dean/Liberal Arts and Learning Resources
B.A., San Diego State University
Ph.D., University of Southern California

Taylor, Don (2000)
Dean/Advanced Technology and Applied Science
B.A., California State University, Pomona
M.Ed., University of Idaho

Wright, James R. (1994)
Dean/Math, Science and Engineering
B.S., M.S., Ph.D., University of Idaho

Saddleback College Faculty

Professor, Mathematics, Science and Engineering
B.S., California State University, Northridge
M.A., University of California, Santa Barbara

Adams, Howard R. (1975)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S., M.S., Loma Linda University

Agnew, Priscilla J. (1977)
Professor, Liberal Arts and Learning Resources
B.A., California State University, Los Angeles
M.A., Ph.D., Claremont Graduate School

Ahearn, Amy (2000)
Assistant Professor, Liberal Arts and Learning Resources
B.A., Millilkin University
M.A., Illinois State University

Alford, JoAnn (1985)
Professor, Counseling Services and Special Programs
B.S., Northwestern Oklahoma State University
M.S., University of Central Oklahoma

Allbright, Aaron (1990—Spring Semester)
Professor, Liberal Arts and Learning Resources
A.B., University of Missouri
M.S.E., Indiana University

Professor, Mathematics, Science and Engineering
B.S., California State University, Long Beach
M.S., Notre Dame University

Altman, Cheryl (1989)
Professor, Liberal Arts and Learning Resources
B.S., M.S., Herbert H. Lehman College of the City University of New York

Anderson, Randy L. (1997—Spring Semester)
Assistant Professor, Counseling Services and Special Programs
B.S., M.S., University of Utah

Anderson, Ronald (1999)
Assistant Professor, Math Science and Engineering
B.A., M.A., University of California, San Diego
Ph.D., University of Montana

Azary, Maryam (1994)
Professor, Counseling Services and Special Programs
B.A., Texas Southern University
M.S., California State University, Los Angeles

Babusek, Alda O. (1979—Spring Semester)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S.N., Cornell University, New York Hospital School of Nursing
M.N., University of California, Los Angeles

Baltierra, Juaniita L. (1985—Spring Semester)
Professor, Counseling Services and Special Programs
A.A., Rio Hondo College
B.A., California State University, Long Beach
M.Ed., University of Hawaii, Manoal

Bander, Carol J. (1977)
Professor, Liberal Arts and Learning Resources
B.A., Queens College
M.A., Ph.D., University of Southern California

Barr, Douglas M. (1991)
Professor, Counseling Services and Special Programs
B.S., M.S., Miami University
Barr, Pamela J. (1992)
Professor, Counseling Services and Special Programs
B.S., M.A.T., Cornell University
M.S., California State University, Fullerton

Becktold, Lynda L. (1982—Spring Semester)
Professor, Liberal Arts and Learning Resources
B.A., University of California, Los Angeles
M.S., California State University, Fullerton

Bell, Ronald D. (1979)
Professor, Advanced Technology and Applied Science
B.A., California State University, Fullerton
M.A., California State University, Long Beach

Belyea, Barbara L. (1985—Spring Semester)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S.N., California State University, Los Angeles

Bessette, Nancy C. (1975)
Professor, Fine Arts, Physical Education, and Athletics
B.S., State University of New York at Brockport
M.A., Pepperdine University

Blei, Mark (2000)
Assistant Professor, Fine Arts, Physical Education, and Athletics
B.A., Cal Poly, San Luis Obispo
M.S., University of Delaware

Bliss, Robert W. (1977)
Professor, Business Science
A.A., Cerritos College
B.A., M.B.A., California State University, Fullerton
Ed.D., Nova University

Boen, Patrizia (1987)
Professor, Business Science
A.A., Orange Coast College
J.D., Western State University, College of Law

Boratyneč, Zina (2000)
Assistant Professor, Counseling Services and Special Programs
B.A., University of California, Irvine
M.S., California State University, Long Beach

Borella, Peter E. (1981)
Professor, Mathematics, Science and Engineering
B.A., University of Bridgeport
M.S., George Washington University
Ph.D., University of Southern California

Professor, Fine Arts, Physical Education, and Athletics
B.A., M.A., California State University, Fullerton

Braatz, Timothy (1999)
Assistant Professor, Social and Behavioral Sciences
B.A., California Lutheran University
M.A., University of California, Santa Barbara
Ph.D., Arizona State University

Professor, Advanced Technology and Applied Science
B.A., California State University, Fullerton

Brenner, Crysti L. (1994)
Professor, Social and Behavioral Sciences
A.A., Los Angeles City College
B.A., M.A., California State University, Los Angeles

Brewer, Christina E. (1974)
Professor, Social and Behavioral Sciences
B.A., M.A., California State University, Fullerton

Brierre-Shambrook, Maud B. (1982—Spring Semester)
Professor, Liberal Arts and Learning Resources
B.A., M.A., Ph.D., University of California, Irvine

Brightbill, Alvin J. (1975)
Professor, Fine Arts, Physical Education, and Athletics
B.M., Chapman College
M.F.A., California Institute of the Arts

Professor, Fine Arts, Physical Education, and Athletics
B.A., California State University, Long Beach
M.A., Azusa Pacific University

Bruno, Brenda J. (1986)
Professor, Liberal Arts and Learning Resources
B.S., M.A., Northern Arizona University
Ph.D., Arizona State University

Carroll, Christina (1981)
Professor, Mathematics, Science and Engineering
B.A., California State University, Los Angeles
M.S., Pepperdine University

Carroll, Thomas C., Jr. (1977)
Professor, Liberal Arts and Learning Resources
A.B., University of California, Los Angeles
M.A., Ph.D., University of California, Santa Barbara

Cederquist, John C. (1975)
Professor, Fine Arts, Physical Education, and Athletics
B.A., M.A., California State University, Long Beach

Cesareo-Silva, Claire (2001)
Assistant Professor, Social and Behavioral Science
B.A., University of California, Berkeley
M.A., Columbia University

Channing, Michael D. (1979)
Professor, Liberal Arts and Learning Resources
B.A., University of California, Santa Barbara
Ph.D., Stanford University

Chin, Lem (1987—Spring Semester)
Professor, Advanced Technology and Applied Science
A.A., East Los Angeles College
B.S., M. Arch., California State Polytechnic University, Pomona

Clark, Jeffrey M. (1989)
Professor, Liberal Arts and Learning Resources
B.A., University of Santa Clara
M.P.W., M.L.A., University of Southern California

Cline, Claudia D. (1989)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S., M.S., University of California, Fullerton

Cobos, Ana Maria (1992)
Professor, Liberal Arts and Learning Resources
B.A., University of California, Riverside
M.A., M.L.S., University of California, Los Angeles

Cohen, Robert I. (1979—Spring Semester)
Professor, Advanced Technology and Applied Science
B.A., B.S., University of Minnesota
M.A., Loyola University

Cosgrove, Robert W. (1981)
Professor, Liberal Arts and Learning Resources
B.A., St. Procopius College
M.A., Ph.D., Purdue University

Cox, Anne (1978—Spring Semester)
Professor, Social and Behavioral Sciences
B.A., Allegheny College
M.S., California State University, Long Beach
Crapo, Stephen (1999)
Assistant Professor, Fine Arts, Physical Education, and Athletics
B.S., M.S., University of Missouri
M.S., Azusa Pacific

Crary, Diane (1998-Spring Semester)
Assistant Professor, Counseling Services & Special Programs
B.A., California State University, Northridge
M.A., California State University, Bakersfield

Crary, Paul D. (1986)
Professor, Fine Arts, Physical Education, and Athletics
B.A., San Diego State University
M.A., California State University, Northridge

Cunerty, William J. (1980)
Professor, Fine Arts, Physical Education, and Athletics
B.A., University of Southern California
M.A., California State University, Dominguez Hills

Curtis, Stanley R. (1977)
Professor, Advanced Technology and Applied Science
A.A., Cypress College
B.V.E., California State University, Long Beach
M.S., Brigham Young University

Professor, Business Science
B.S., California State University, Los Angeles
M.B.A., California State University, Dominguez Hills

Dennis-Hlad, Julie (1998)
Associate Professor, Liberal Arts and Learning Resources
B.A., University of the Pacific
M.A., San Francisco State University

De Saracho, Mariana (1991)
Professor, Counseling Services and Special Programs
B.S., M.A., San Diego State University
Ph.D., University of Southern California

DiLeo, David L. (1993)
Professor, Social and Behavioral Science
B.A., M.A., California State University, Long Beach
M.A., Ph.D., University of California, Irvine

Dominguez, Carmen C. (1996)
Professor, Fine Arts, Physical Education, and Athletics
B.A., San Diego State University
M.M., San Diego State University
D.M.A., Peabody Conservatory/Johns Hopkins University

Duquette, Janice L. (1977)
Professor, Fine Arts, Physical Education, and Athletics
B.A., Arizona State University
M.A., San Diego State University

Edwards, Diane J. (1978)
Professor, Health Sciences, Human Services and Emeritus Institute
B.A., San Jose State University
M.S., California State University, Fullerton
Ed.D., Nova Southeastern University

Elkins, Claire B. (1977)
Professor, Fine Arts, Physical Education, and Athletics
B.A., Texas A & M University
M.Ed., University of Texas at Austin

Espinosa, Peter J. (1980)
Professor, Counseling Services and Special Programs
B.A., California State University, Long Beach
M.S., California State University, Fullerton
Ed.D., University of Southern California

Evancoe, Eugene J. (1991)
Professor, Advanced Technology and Applied Science
B.S.E.E., University of Illinois
M.S.E.E., University of California, Berkeley

Evans, Nancy (1989)
Professor, Mathematics, Science and Engineering
B.A., M.A., University of California, Irvine

Evans-Wallin, Patricia K. (1990)
Professor, Mathematics, Science and Engineering
B.A., M.S., University of Southern California

Evans, Thomas D. (1981)
Professor, Advanced Technology and Applied Science
B.S., Woodbury College
M.A., California State University, Los Angeles

Fennell, Patrick J. (1979)
Professor, Fine Arts, Physical Education, and Athletics
A.B., University of California, Los Angeles
M.A., Ph.D., University of California, Santa Barbara

Professor, Social and Behavioral Sciences
B.S., California State University, Los Angeles
M.S., California State University, Long Beach
Ph.D., U.S. International University

Fier, Scott R. (1993)
Professor, Mathematics, Science and Engineering
B.A., B.S., M.S., University of California, Irvine

Professor, Business Science
B.A., M.A., Indiana State University

Professor, Health Sciences, Human Services and Emeritus Institute
B.S.N., University of Tennessee
M.S.N., California State University, Long Beach

Francisco, David (2001)
Assistant Professor, Counseling Services and Special Programs
B.A., University of San Diego
M.A., Westminster Theological Seminary

Froehlich, Robert A. (1977)
Professor, Counseling Services and Special Programs
B.S., M.S., M.S., San Diego State University
Ph.D., U.S. International University

Garant, Dorothy (1990—Spring Semester)
Professor, Fine Arts, Physical Education, and Athletics
B.A.E., M.A., Arizona State University

Garcia, Anthony M. (1977)
Professor, Liberal Arts and Learning Resources
B.A., M.A., California State University, Los Angeles

Gershom, Barbara A. (1975)
Professor, Advanced Technology and Applied Science
B.S., University of California, Davis
M.A., University of California, Los Angeles

Professor, Health Sciences, Human Services and Emeritus Institute
B.S.N., California State University, Los Angeles

Professor, Business Science
B.A., M.A., University of Michigan
Goodman, Richard (1990)
Professor, Health Sciences, Human Services and Emeritus Institute
B.A., California State University, Northridge
M.S., Pepperdine University

Gouldsmith, Yolanda, (1998)
Associate Professor, Counseling Services and Special Programs
B.S., California State University, Fullerton
M.A., California State University, Dominguez Hills

Guizar, Mercedes (1999)
Assistant Professor, Liberal Arts and Learning Resources
B.A., University of California, Irvine
M.A., New York University

Haas, Sharon (1998)
Assistant Professor, Fine Arts, Physical Education, and Athletics
B.A., Mills College, Oakland
M.Ed., Azusa Pacific

Hada, Dennis S. (1986)
Professor, Mathematics, Science and Engineering
B.A., M.A., Ph.D., University of California, Los Angeles

Haeri, Mitchell B. (1996-Spring Semester)
Professor, Mathematics, Science and Engineering
B.S., University of California, Irvine
M.S., Ph.D., University of California, Los Angeles

Haggerty, A. Lee (1981)
Professor, Social and Behavioral Sciences
A.B., A.M., Stanford University

Professor, Counseling Services and Special Programs
B.A., California State University, Long Beach
M.S., California State University, Los Angeles

Harrison, Charles R. (1976)
Professor, Advanced Technology and Applied Science
B.S., Ph.D., University of California, Irvine

Hastings, Ronald J. (1980—Spring Semester)
Professor, Counseling Services and Special Programs
B.A., California State University, Long Beach
M.S., California Lutheran College

Heffernan, William A. (1973)
Professor, Liberal Arts and Learning Resources
B.A., M.A., St. John’s University
Ph.D., Fordham University

Henry, V. Robert (1990—Spring Semester)
Professor, Health Sciences, Human Services and Emeritus Institute
B.A., California State University, Fullerton

Hernandez-Bravo, Carmenmara (1990)
Professor, Liberal Arts and Learning Resources
B.A., M.S., University of California, Irvine

Hodge, Kathleen O’C. (1975)
Professor, Social and Behavioral Sciences
B.A., M.S., California State University, Fullerton

Professor, Fine Arts, Physical Education, and Athletics
B.A., Stanford University
M.Ed., Whittier College

Hooper, Gail (1999)
Assistant Professor, Counseling Services and Special Programs
B.A., California State University of Fullerton
M.S., National University

Hopkins, Loma J. (1984—Spring Semester)
Professor, Counseling Services and Special Programs
B.A., Pomona College
M.Ed., University of Missouri

Horlings, Jane E. (1990)
Professor, Mathematics, Science and Engineering
B.S., University of Nebraska
Ph.D., University of California, Davis

Howlett, Scott (1999)
Assistant Professor, Social and Behavioral Sciences
B.A., B.S., M.A., California State Fullerton
M.A., Ph.D., University of California, Irvine

Huang, S. Margaret (1976—Spring Semester)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S., Boston University
M.S., Teachers College, Columbia University
Gerontological Nurse Certified by American Nurses Association

Hunt, Matthew (2000)
Assistant Professor, Liberal Arts and Learning Resources
B.A., California State University, Fresno
M.A., Ph.D., University of Southern California

Professor, Math, Science and Engineering
B.S., B.A., University of California, Irvine
M.A., California State University, Fullerton
Ph.D., University of California, Santa Cruz

Iacino-Tan, Dorina (1991)
Professor, Math, Science and Engineering
B.A., Queens College of the City University of New York
M.Acc., Cornell University Graduate School of Medical Sciences

Ininns, Elizabeth (1999)
Assistant Professor, Math, Science and Engineering
B.S., M.S., University of California, Irvine

Jacobs, Paula L. (1981—Spring Semester)
Professor, Liberal Arts and Learning Resources
B.A., Bethel College
M.A., University of California, Riverside
M.A., Loyola Marymount University

Jacobsen, Karen (1999)
Assistant Professor, Fine Arts, Physical Education, and Athletics
B.S., University of Michigan
M. Ed., Azusa Pacific University

Johnson, Zane O. (1975)
Professor, Advanced Technology and Applied Science
B.S., M.S., Northern Arizona University

Jones, Lawrence R. (1977)
Professor, Fine Arts, Physical Education, and Athletics
B.A., M.F.A., California State University, Long Beach

Kihyet, Constance M. (1988)
Professor, Liberal Arts and Learning Resources
B.A., M.S., University of Southern Mississippi
Ph.D., Florida State University

Kim, Yong H. (1977)
Professor, Mathematics, Science and Engineering
B.S., Seoul National University, Korea
M.A., Ph.D., University of California, Berkeley

Kirsch, Alfred F. (1979)
Professor, Advanced Technology and Applied Science
B.A., M.A., California State University, Long Beach
Professor, Liberal Arts and Learning Resources
B.A., M.A., California State University, Long Beach
M.S., California State University, Fullerton
Ph.D., University of Southern California

Kucharski, Phillis (2001)
Assistant Professor, Health Sciences, Human Services and Emeritus
B.S.N., State University of New York
M.S.N., Wagner College

Lebauer, Roni (1990)
Professor, Liberal Arts and Learning Resources
B.A., Queens College of the City University of New York
M.A., University of Hawaii

Leighten, Ronald S. (1977)
Professor, Fine Arts, Physical Education, and Athletics
B.A., M.A., California State University, Fullerton

Levin, Patricia L. (1987)
Professor, Fine Arts, Physical Education, and Athletics
B.A., University of California, Los Angeles
M.A., University of Southern California
Ph.D., University of California, Irvine

Lewis, Wendy R. (1986—Spring Semester)
Professor, Liberal Arts and Learning Resources
B.A., University of California, Los Angeles
M.L.S., University of Southern California

Lindsay, Dawn (1997)
Assistant Professor, Counseling Services and Special Programs
B.A., B.S.W. Western Maryland
M.Ed., Western Maryland
Ed.D., Pepperdine University

Llorente, Alex J. (1984)
Professor, Business Science
B.A., M.A., University of South Florida
M.B.A., University of Houston
J.D., Western State University

Lovett, Margot (1997)
Professor, Social and Behavioral Science
B.A., Montclair State College, N.J
M.A. Columbia University
Ph.D., Columbia University

Professor, Liberal Arts and Learning Resources
B.A., M.A., University of California, Santa Barbara

MacMillan, Sharon (1977)
Professor, Social and Behavioral Sciences
B.A., M.A., Central Missouri State University
Ph.D., University of Southern California

MacIntosh, Jeanne M. (1990)
Professor, Liberal Arts and Learning Resources
B.A., Western Michigan University
M.A., University of California, Irvine

McCullough, Richard D. (1971)
Professor, Mathematics, Science and Engineering
B.S., Loyola University
M.S., Purdue University
Ph.D., U.S. International University

McElroy, G. Mark (1999)
Assistant Professor, Fine Arts, Physical Education, and Athletics
B.A., California State University, Chico
M.A., United States International University
M.Ed., Azusa Pacific
Ed. D., Brigham Yound University

Professor, Advanced Technology and Applied Science
B.A., San Diego State University
M.A., California State University, Long Beach

McKendall, Carolyn (1999)
Assistant Professor, Liberal Arts and Learning Resources
B.A., M.A., Chapman University

Merrifield, Michael J. (1977)
Professor, Social and Behavioral Science
B.A., M.A., California State University, Fullerton

Messner, Carolann M. (1977)
Professor, Fine Arts, Physical Education, and Athletics
B.S., M.A., University of Akron

Meyer, Katherine (2001)
Assistant Professor, Mathematics, Science and Engineering
B.S., George Fox University
M.S., Oregon State University

Meyer, Thomas S. (1971)
Professor, Mathematics, Science and Engineering
B.S., Gustavus Adolphus College
M.A., Mankato State University

Milakajczak, Michael L. (1980)
Professor, Counseling Services and Special Programs
A.A., Orange Coast College
B.A., M.S., California State University, Fullerton

Miller-White, Sherry (1988)
Professor, Social and Behavioral Sciences
B.A., Tougaloo College
M.A., California State University, Long Beach

Moore, Larry (1999)
Assistant Professor, Business Science
B.S., San Diego State University

Morris, Josephine H. (1987)
Professor, Health Sciences, Human Services and Emeritus
Institute
B.S.N., Florida State University
M.N., University of California, Los Angeles
Ed.D., Nova Southeastern University

Mullin, John (1982)
Professor, Mathematics, Science and Engineering
B.A., California State University, Fullerton
M.A., California State University, Long Beach

Mullin, John (1982)
Professor, Mathematics, Science and Engineering
B.A., California State University, Fullerton
M.A., California State University, Long Beach
Nawa-Raridon, Susan E. (1985—Spring Semester)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S.N., M.S.N., M.S., California State University, Los Angeles
Nurse Practitioner, Harbor-UCLA Medical Center

Nelson, Calvin L. (1969)
Professor, Mathematics, Science and Engineering
B.A., M.S., Wayne State College
M.A., Rutgers University
Ed.D., Nova University

Professor, Business Science
B.S., University of Redlands
M.B.A., University of La Verne
Ph.D., University of Southern California

Professor, Fine Arts, Physical Education, and Athletics
B.M., University of Redlands
M.S., California State University, Los Angeles

Nguyen, Hoa (2000)
Assistant Professor, Mathematics and Engineering
B.S., M.S., California State University, Long Beach

Nicolson, Sheryl A. (1980)
Professor, Social and Behavioral Sciences
B.A., University of Missouri
M.A., Arizona State University

Noor, Petrina H. (1979—Spring Semester)
Professor, Business Science
B.A., University of California, Los Angeles
M.A., California State University, Fullerton
M.S.B.A., California State Polytechnic University, Pomona

Nussenbaum, Sharon (1988)
Professor, Counseling Services and Special Programs
B.A., M.S., San Diego State University

Orrison, Alannah (1990)
Professor, Social and Behavioral Sciences
B.A., Immaculate Heart College
M.A., University of Southern California
Ph.D., New York University

Parsons, Robert N. (1968)
Professor, Mathematics, Science and Engineering
B.A., Occidental College
M.A., California State University, Long Beach

Penland, Barbara A. (1988)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S., University of Redlands
M.A., Webster University

Perez, Lawrence (1999)
Assistant Professor, Math, Science and Engineering
B.F.A., M.A., California State University, Fullerton

Perry, Pamela (2001)
Assistant Professor, Learning Resources
B.A., Clark University
M.L.I.S., Graduate School of Library and Information Science

Pestolesi, Diane M. (1996)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S.N., University of Hawaii at Manoa
M.S.N., California State University, Dominguez Hills

Petricig, Michael B. (1988)
Professor, Mathematics, Science and Engineering
B.S., Georgetown University
M.A., University of California, Santa Barbara
M.S., University of California, Irvine

Piper, Lindsay (1999)
Assistant Professor, Advanced Technology and Applied Science
B.F.A., M.A.T., Rhode Island School of Design

Potratz, Richard A. (1975)
Professor, Counseling Services and Special Programs
B.S., University of California, Irvine
M.S., California State University, Los Angeles
Ph.D., U.S. International University

Radden, Larry (1994)
Professor, Fine Arts, Physical Education, and Athletics
B.A., San Francisco State University
M.A., California State University, Los Angeles

Reed, J. Michael (1985)
Professor, Liberal Arts and Learning Resources
B.A., M.A., University of Redlands

Repka, James L. (1996)
Professor, Mathematics, Science and Engineering
A.A., Saddleback College
B.A., University of California, Berkeley
Ph.D., University of California, Santa Cruz

Reyes, Raymond (1998)
Associate Professor, Social and Behavioral Science
B.A., M.A., California State University, Los Angeles
M.A., California Lutheran University

Riley, William J., III (1980)
Professor, Fine Arts, Physical Education, and Athletics
B.S., Southern Connecticut State College
M.F.A., Tulane University

Robinson, Terrill L. (1978)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S., M.S., California State University, Fullerton

Robison, Shelba J. (1976)
Professor, Liberal Arts and Learning Resources
B.A., California State University, Los Angeles
M.A., Claremont Graduate School

Rollins, Rebecca T. (1980)
Professor, Fine Arts, Physical Education, and Athletics
B.A., Bethel College
M.A., University of Minnesota
D.M.A., Claremont Graduate School

Runyan, Michael G. (1977)
Professor, Liberal Arts and Learning Resources
B.A., M.A., University of California, Berkeley
Ph.D., University of California, Los Angeles

Ruyle, Susan (1989)
Professor, Liberal Arts and Learning Resources
B.A., Loyola-Marymount (St. Joseph Campus)
M.A., California State University, Fullerton

Satyendra, Gita (1990—Spring Semester)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S., M.S., California State University, Fullerton

Siegel, Linda I. (1986)
Professor, Social and Behavioral Sciences
B.A., University of Wisconsin-Madison
M.S., Ph.D., University of Massachusetts, Amherst
Silveira, Lisa (1998)  
Associate Professor, Math, Science and Engineering  
B.A., M.A., California State University, Fullerton

Smith, D. Jeanne (1977)  
Professor, Mathematics, Science and Engineering  
B.S., M.S., University of Michigan  
Ed.D., Nova University

Smith, Kathleen F. (1990)  
Professor, Liberal Arts and Learning Resources  
B.A., University of California, Berkeley  
M.S., University of Southern California

Smith, Maureen F. (1990)  
Professor, Business Science  
B.S., Ohio State University  
M.S., California State University, Long Beach

Smolen, Stephen A. (1990)  
Professor, Liberal Arts and Learning Resources  
A.B., San Diego State University  
M.A.T., LaVerne College

Stakan, Gary (1990)  
Professor, Counseling Services and Special Programs  
B.A., M.A., California State University, Los Angeles  
M.A., California State University, Northridge

Stevens, Kay L. (1990—Spring Semester)  
Professor, Health Sciences, Human Services and Emeritus Institute Institute  
B.A., M.A., University of Redlands

Assistant Professor, Liberal Arts and Learning Resources  
B.S., SanDiego State University  
M.A., California State University, Long Beach  
M.B.A., Pepperdine University

Professor, Business Science  
A.A., Prince George’s Community College  
B.A., M.A., University of Redlands

Summers, William L. (1985)  
Professor, Mathematics, Science and Engineering  
B.A., M.A., University of California, Irvine

Sworder, Steven C. (1977)  
Professor, Mathematics, Science and Engineering  
A.A., Fullerton Junior College  
B.S., University of California, Berkeley  
Ed.D., Nova University  
Ph.D., M.S., M.A.T., University of California, Los Angeles

Tamer, Rita (2001)  
Assistant Professor, Health Sciences, Human Services and Emeritus Institute Institute  
B.A., M.A., California State University, Northridge

Tarui, Kazumitsu (1980)  
Professor, Mathematics, Science and Engineering  
B.A., M.A.T., University of California, Los Angeles

Tash, Steven J. (1979)  
Professor, Liberal Arts and Learning Resources  
B.A., M.L.S., University of California, Los Angeles

Teh, Steven (2000)  
Assistant Professor, Mathematics, Science and Engineering  
B.S., M.S., California State Polytechnic University, Pomona

Tharpe, Loretta (1999)  
Assistant Professor, Health Science and Human Services  
B.S.N., Azusa Pacific  
M.S.N., California State University, Dominguez Hills

Thomas, Arlene E. (1988)  
Professor, Advanced Technology and Applied Science  
B.A., M.A., California State University, Long Beach

Titus, David B. (1990)  
Professor, Advanced Technology and Applied Science  
A.A., Foothill College  
B.A., M.A., San Diego State University

Turner, Pamela (2000)  
Assistant Professor, Health Sciences, Human Services and Emeritus Institute Institute  
B.F.A., Maryland Institute College of Art  
M.F.A, Pennsylvania State University

Twicken, Lawrence, P. (1994)  
Professor, Social and Behavioral Science  
B.A., University of California, Los Angeles  
M.A., California State University, Los Angeles  
Ph.D., Claremont Graduate School

Valencic, Joseph J. (1979)  
Professor, Mathematics, Science and Engineering  
B.A., St. Vincent College  
B.S., M.S., Carnegie Mellon University

Venable, Samantha J. (1988)  
Professor, Health Sciences, Human Services and Emeritus Institute Institute  
B.S., M.S., University of California, San Francisco

Ventura, Janet (1999)  
Assistant Professor, Counseling Services and Special Services  
B.A., M.A., Whittier College  
Ph.D., California Schools of Professional Psychology, Fresno

Professor, Liberal Arts and Learning Resources  
B.A., M.A., University of Southern California  
M.A., California State University, Los Angeles

Walker, H. Lee (1971)  
Professor, Liberal Arts and Learning Resources  
B.A., Susquehanna University  
M.A., University of Redlands

Walsh, Daniel (1999)  
Assistant Professor, Social and Behavioral Sciences  
B.A., M.A., California State University, Fullerton

Watkins, Peggy (1989)  
Professor, Mathematics, Science and Engineering  
B.S., California State University, Fullerton  
M.S., Pepperdine University

Watkins, Ray E. (1977)  
Professor, Mathematics, Science and Engineering  
B.S., M.S., University of Colorado

Weisgerber, William H. (1973)  
Professor, Business Science  
B.A., M.A., California State University, Long Beach  
M.A., National University

Weisrock, Thomas J. (1974)  
Professor, Liberal Arts and Learning Resources  
B.A., Arizona State University  
M.A., Stanford University  
M.L.S., University of Southern California

Welc, S. Martin (1989)  
Professor, Business Science  
B.A., Richard Stockton State College  
M.B.A., Golden Gate University

Wells, Lynn K. (1975)  
Professor, Fine Arts, Physical Education, and Athletics  
B.A., M.A., University of Arizona
Weston, Norman J. (1989)
Professor, Fine Arts, Physical Education, and Athletics
B.M., M.M., Indiana University
D.M., Northwestern University

Westphal, Karla (2001)
Assistant Professor, Mathematics, Science and Engineering
B.A., Yale University
M.S., Loyola University

White, Richard (1998)
Associate Professor, Fine Arts and Communication
B.A., University of Santa Cruz
M.F.A., New York State College of Ceramics, Alfred University

White, Susan (1999)
Assistant Professor, Social and Behavioral Sciences
B.A., Skidmore College, New York
M.A., Bank Street College of Education, New York City

Whitt, Terri (1976)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S.N., Indiana University
M.N., University of California, Los Angeles
Ed.D., Nova University

Wilcox, Rosalinde G. (1994)
Professor, Fine Arts, Physical Education, and Athletics
B.S., Woodbury University
M.A., California State University, Northridge
Ph.D., University of California, Los Angeles

Wilson, Richard C. (1978)
Professor, Health Sciences, Human Services and Emeritus Institute
B.A., Lincoln College
M.S., Butler University
M.A., Pepperdine University
Ph.D., United States International University, San Diego

Wolff, Michele (1999)
Assistant Professor, Health Science and Human Services
B.S.N., Penn State University
M.S.N., California State University, Dominguez Hills

Woodward, Kenneth G., Jr. (1986—Spring Semester)
Professor, Social and Behavioral Sciences
B.A., State University of New York
M.A., University of Pittsburgh
Ph.D., University of California, Riverside

Professor, Mathematics, Science and Engineering
B.A., Anderson College
Ph.D., University of California, Irvine

Professor, Business Science
B.S., Eastern Illinois University
M.B.A., Pepperdine University

Zakrzewski, Danuta (1981)
Professor, Health Sciences, Human Services and Emeritus Institute
B.S.N., California State University, Los Angeles
M.S., California State University, Dominguez Hills

Ziehm, Carol (1999)
Assistant Professor, Liberal Arts and Learning Resources
B.A., M.A., University of Southern California

EMERITI

Professor Emeritus, Fine Arts and Communication

Dean Emeritus, Mathematics, Science and Engineering

Professor Emeritus, Fine Arts and Communication

Benns, Roberta M. (1977-1999)
Professor Emeritus, Social and Behavioral Sciences

Professor Emeritus, Mathematics, Science and Engineering

Professor, Emeritus Mathematics, Science and Engineering

President Emeritus

Bremer, Fred H. (1967-1987)
President Emeritus

Brennan, Paul E. (1968-1993)
Professor Emeritus, Social and Behavioral Sciences

Vice President/Instruction, Emeritus

Busché, Donald L. (1977-2002)
Vice President, Emeritus Instruction

Professor Emeritus, Social and Behavioral Sciences

Professor Emeritus, Physical Education, and Athletics

Calkins, Keith D. (1980-2001)
Professor Emeritus, Fine Arts, Physical Education, and Athletics

Professor Emeritus, Fine Arts and Communication

Professor Emeritus, Social and Behavioral Sciences

Professor Emeritus, Social and Behavioral Sciences

Cogbill, Bonnie J. (1968-1996)
Professor Emeritus, Fine Arts and Communication

Courtright, Theresa E. (1973-1985)
Professor Emeritus, Learning Resources

Professor Emeritus, Business Science

Darr, Flip (1973-1999)
Professor Emeritus, Physical Education, and Athletics

Professor Emeritus, Student Health Services

Professor Emeritus, Liberal Arts

Professor Emeritus, Business Science

Eschbach, Delphine M. (1972-1988)
Professor Emeritus, Health Sciences, Human Services and Emeritus Institute

Evans, E. Lloyd (1985-1999)
Professor Emeritus, Social and Behavioral Sciences
Fritsen, Jan (1988-2000)
Professor Emeritus, Counseling Services and Special Programs

Gritton, Margaret H. (1973-1999)
Professor Emeritus, Advanced Technology and Applied Science

Hagerty, Elizabeth Ann (1973-2000)
Professor Emeritus, Learning Resources

Professor Emeritus, Business Science

Hartman, B. George (1968-1999)
Professor Emeritus, Physical Education and Athletics

Professor Emeritus, Health Sciences, Human Services and Emeritus Institute

Professor Emeritus, Social and Behavioral Sciences

Horvath, Wayne J. (1968-1999)
Professor Emeritus, Fine Arts, Physical Education, and Athletics

Professor Emeritus, Counseling Services and Special Programs

Professor Emeritus, Math Science and Engineering

Johns, A. Herbert (1975-1994)
Professor Emeritus, Business Science

Vice Chancellor/Administrative Services, Emeritus

Kero, Reynold J. (1968-1993)
Professor Emeritus, Mathematics, Science and Engineering

Professor Emeritus, Advanced Technology and Applied Science

Kish, Andrew W. (1968-1995)
Professor Emeritus, Social and Behavioral Sciences

Kosmides, Martha Sue (1990-2002)
Professor Emeritus, Liberal Arts and Learning Resources

Professor Emeritus, Counseling Services and Special Programs

Professor Emeritus, Fine Arts, Physical Education, and Athletics

Lange, Grace L. (1968-1993)
Professor Emeritus, Liberal Arts

LeSourd, Peter (1989-2000)
Professor, Business Science

Professor Emeritus, Mathematics, Science and Engineering

Professor Emeritus, Mathematics, Science and Engineering

Professor Emeritus, Business Science

Professor Emeritus, Social and Behavioral Sciences

Professor Emeritus, Physical Education and Athletics

Professor Emeritus, Social and Behavioral Sciences

Associate Dean Emeritus, Continuing Education and Community Services

Professor Emeritus, Liberal Arts

Minch, John A. (1972-1994)
Professor Emeritus, Mathematics, Science and Engineering

Professor Emeritus, Social and Behavioral Sciences

Olson, Robert W. (1968-2002)
Professor Emeritus, Social and Behavioral Sciences

Professor Emeritus, Social and Behavioral Sciences

Professor Emeritus, Business Science

Pierce, Mary Lou (1983-1994)
Dean Emeritus/Professor Emeritus, Mathematics, Science and Engineering

Prendiville, Margaret B. (1985-1993)
Professor Emeritus, Health Sciences, Human Services and Emeritus Institute

Professor Emeritus, Mathematics, Science and Engineering

Professor Emeritus, Business Science

Professor Emeritus, Health Sciences, Human Services and Emeritus Institute

Roelen, Jay (1968-1995)
Professor Emeritus, Physical Education and Athletics

Rogers, Phil (1977-1993)
Professor Emeritus, Mathematics, Science and Engineering

Ryan, Patricia K. (1972-1994)
Professor Emeritus, Health Sciences, Human Services and Emeritus Institute

Professor Emeritus, Counseling Services and Special Programs

Professor Emeritus, Physical Education and Athletics

Chancellor Emeritus

Spidell, Dorothy K. (1968-1983)
Professor Emeritus, Library/Media Services

Associate Professor Emeritus, Health Sciences, Human Services and Emeritus Institute

Stevens, Roy C. (1968-1999)
Professor Emeritus, Physical Education and Athletics

Professor, Physical Education, and Athletics

Surface, Milton B. (1968-1986)
Professor Emeritus, Social Sciences

Professor Emeritus, Counseling Services and Special Programs

Professor Emeritus, Physical Education and Athletics

Thorpe, James F. (1968-1995)
Professor Emeritus, Mathematics, Science and Engineering

Professor Emeritus, Health Sciences and Gerontology

Vincenzi, Jean M. (1968-1990)
Professor Emeritus, Mathematics, Science and Engineering

Professor Emeritus, Advanced Technology and Applied Science
Professor Emeritus, Mathematics, Science and Engineering

Williams, William M. (1968-1993)  
Dean Emeritus, Social and Behavioral Sciences

Professor Emeritus, Health Sciences, Human Services and Emeritus Institute

Zimbalist, Donald R. (1975-1997)  
Professor Emeritus, Liberal Arts

ASSOCIATE FACULTY

Saddleback College has, in addition to the regular full-time contract faculty, many qualified associate instructors who come from industry, business and other educational institutions. This produces a faculty with many talents to support a diversified program of offerings requested and expected of the community college.